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My Knowledge Organiser

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What is a Knowledge Organiser?

A Knowledge Organiser is a place to keep some key information for the topics we are learning about. This may include an important formula, vocabulary, dates or explanations. It is not a complete list of everything we are studying but it is a place where we can find the basic information. It is likely that when you first see the Knowledge Organiser you will not understand much of what is included. Gradually, as you work on the content in lessons and at home, it will become more familiar and, over time, you should find that, not only do you understand everything on it, but that you can *remember* everything that is on it and, even better, know how this information relates to what you are studying.

How do we use our Knowledge Organisers?

We can use our Knowledge Organisers in many ways. The main aim is that we are able to memorise, understand and eventually *apply* all of the information in the Knowledge Organisers. We will do this by:

- •using them to refer to in class to support our learning.
- •working on them in lessons and coming up with ways to memorise the information in them.
- •working on them at home with parents or carers to reinforce our learning and so that others may be involved in what we are learning too.
- •using them as learning homeworks that we will have quizzes on in class.
- •using them as homework or to help with homework.

What do I need to know?

This knowledge organiser has been given to you. It is an essential part of school equipment and you must bring it to school everyday. You must have your knowledge organiser with you for each lesson. Fill in your timetable in pencil and use it to plan your equipment each day. Test yourself on the knowledge in this booklet regularly; in class, at home, on the bus, or with help from friends and family. There are some activities for you to do in this knowledge organiser. Don't write in the booklet – use paper so that you can test yourself regularly and see the progress you are making. Sometimes you will use these booklets in cover lessons and for homework.

If you lose your Knowledge Organiser make every effort to find it. They are valuable, look after them. If you can't find it you will be charged for a new one.

• Fill in your timetable very carefully in pencil. Include the teacher's name, the subject and the classroom. Try to learn your timetable off by heart.

				Week	A			
	Form	Lesson 1	Lesson 2		Lesson 3		Lesson 4	Lesson 5
	8.25-8.45	8.45-9.45	9.45-10.45		11.00-12.00		12.45-1.45	1.45-2.45
Monday	bly					o		
Tuesday	Form time or Assembly			Break		Lunch time		
Wednesday	time or					<u>ה</u>		
Thursday	Form							
Friday								

• Fill in your timetable very carefully in pencil. Include the teacher's name, the subject and the classroom. Try to learn your timetable off by heart.

				Week	В			
	Form	Lesson 1	Lesson 2		Lesson 3		Lesson 4	Lesson 5
	8.25-8.45	8.45-9.45	9.45-10.45		11.00-12.00		12.45-1.45	1.45-2.45
Monday	<u>></u>					 		
Tuesday	Assembly			Break		unch time		
Wednesday	ō					Lur		
Thursday	Form time							
Friday								

Punctuality and Attendance

It is vital that pupils attend school every day and on time. There is a proven link between attendance, attainment and progress. At St Joseph's we expect all pupils to aspire to 100% attendance and for pupils to be on the school site *before* 8.25am.

If a pupil is going to be absent we ask that a phone call is made to school on the first morning of absence before 8.25am. If contact is not made the school will contact parents / carers. Please send a letter in explaining your child's absence on the first day they return to school.

School attendance is monitored daily and a letter will be sent to parents immediately attendance becomes a cause for concern. Further action may be taken and this may include; further letters home, a school attendance meeting, a fixed penalty notice (fine).

It is important to be on time for school and lessons. Lateness can affect everybody's progress. For this reason, pupils arriving persistently late will be given a detention. Where lateness is not improving school will apply further sanctions and seek parental support.

Holidays or any other events during term-time are strongly discouraged as this can have a detrimental effect on your child's progress, as well as that of others in their class. In almost all cases schools will not authorise holidays take in in term time and this may result in sanctions from Education Welfare Services. We appreciate your ongoing support in this matter.

My attendance term 1	%
My attendance term 2	%
My attendance term 3	%

Catholic Life and Mission at St Joseph's With Christ at the centre, our school seeks to exemplify faith in action, working for justice and



With Christ at the centre, our school seeks to exemplify faith in action, working for justice and compassion, manifest in acts of charity and kindness. We work for those in need, and instil an ethos of care, kindness, and respect. As an inclusive family, we seek to help and care for the most vulnerable and marginalised. Our community is built upon values, which are inspired by the Gospel and the Church. Our values are visible in the environment, relationships, interactions, and our day-to-day life.



#Walk on Water
Will you get out of the boat
of your comfort zone, look
to Jesus, and achieve
beyond your wildest
imagination?

Dear young people, make the most of these years of your youth. Don't observe life from a balcony. Don't confuse happiness with an armchair, or live your life behind a screen....Don't be parked cars, but dream freely and make good decisions. Take risks, even if it means making mistakes..... Live! Give yourselves over to the best of life! Open the door of the cage, go out and fly!

Pope Francis, Christus Vivit 143 Christ has no body but yours, No hands, no feet on earth but yours, Yours are the eyes with which he looks Compassion on this world, Yours are the feet with which he walks to do good,

Yours are the hands, with which he blesses all the world.

Yours are the hands, yours are the feet,

Yours are the eyes, you are his body. Christ has no body now but yours, No hands, no feet on earth but yours, Yours are the eyes with which he looks compassion on this world.

Christ has no body now on earth but yours.

- Teresa of Ávila

All adults at St Joseph's are here to keep you safe

If you have any worries or concerns please speak to any adult

You WILL be listened to!

They may need to discuss these worries with Mr Singleton, Mrs Anderton, Mr Sylvester or Miss Tebay in order that your issue is dealt with. The websites below may also be helpful out of school time:











St Joseph's Curriculum Structure

Communication

Self-regulation



Behaviour towards

Charity work

others

Kindness

Celebrating

differences

Using manners 2

Motivated

Attendance

Determination +

and enrichment

Participation

Leadership

Uniform

Personal Development Curriculum

Link4Life



Confidence	Curiosity	Commitment	Compassion	Consideration	Collaboration
Genesis 1:27 "God created man in his own image"	Philippians 14:9 "Whatever you have learned or heard or seen from me, put it into practice"	Proverbs 16:3 "Commit to the LORD whatever you do"	John 13:34 "Love one another: just as I have loved you"	Galatians 5:13 "Serve one another humbly in love"	Corinthians 12:12 "We are one body in Christ, together"
	· ·				

The Formal Element	Definition
Line	The path left by a moving point, e.g. a pencil or a brush dipped in paint, that can take many forms. e.g. horizontal, diagonal or curved.
Tone	The lightness or darkness of something. This could be shade or how dark or light a colour appears
Texture	The surface quality of something, the way something feels or looks like it feels. There are two types: Actual and Visual.
Shape	An area enclosed by a line. It could be just an outline, or it could be shaded in.
Pattern	A design that is created by repeated lines/ shapes/ tones or colours. It can be manmade, like a design on a fabric or natural, such as markings on animal fur.
Colour	There are 2 types including Primary and Secondary. By mixing any two primary together we get a secondary.

2H H

ART



Primary Colours are the 3 main colours. They cannot be made, but are used to make all other colours. Secondary Colours are made mixing 2

Colour Theory

primary colours. **Tertiary Colours** are made by mixing a primary and secondary colour together.

Complimentary Colours are opposite on the colour wheel.

Harmonious Colours are next to each other on the wheel.

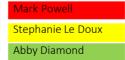
Tint – When you add white to a colour to make it lighter.

Shade- When you add black to a colour to make it darker.









Sam Kirk

Ian Murphy Ruth Allen



Use these questions in your SKETCHBOOK

ART

Answer these questions in FULL Sentences to neip write your annotation:

WHAT does the artist create work of?

WHERE do they get their sources from?

WHAT media do they use to create their work?

HOW do they create their work? **WHAT** is the colour pallete? **WHAT** style is the artists' work?

WHAT is the main focus of the image?

WHAT is the eye drawn to. Think about composition, what's in the

background, what is in the foreground.

YOUR opinion. Do you like / dislike their work? Why?

YOUR ARTIST COPY

WHAT did you use to create your copy? Tools / equipment **WHAT** source did you use? Is it one of your own photos? **HOW** did you create your artist copy? STEP BY STEP

Is it similar to the artists' work? How?

YOUR opinion. Was it successful / how could you improve? **Development**- Use your own photo to create a development showing inspiration from the artist.

Example

•Here I have created an artist copy of Ian Murphy's work. I prepared my background with different neutral coloured papers, I used beige and brown watercolour to age my background, preparing my paper will add texture to my work. I then drew my building over the top of my background, and used mixed media such as chalk, charcoal and fineliner to add tone and depth.

Now add your opinion...

- I like / dislike my artist copy because.....
- Is your background good? Is it too messy? Could you have added more?
- Is your drawing accurate?
- Have you added tone?
- Have you used **mixed** media?





ART - Observational Drawings

To look at an object /photograph and draw exactly what you see.









Checklist:

- -You MUST use one of your own photographs to draw from.
- -Experiment with at least 3 mediums.
- -Draw exactly how you see the photo. Is it on an angle, where are the tints, tones and shades?



Media you could use

Pen (fineliner / biro)

Pencil

Acrylic paint







Watercolour

Chalk / Charcoal

Collage

Digital /
Graphic /
Photoshop

ART

Developments/Ideas

- Do you have any **photos** to help your ideas?
- Which artist or artists have inspired you?
- Draw and try 4 developments/ideas.
- Explain the ideas you have chosen and why.

Own photograph



I have chosen this photo to develop my ideas.

I like the **repeat patterns** and want to explore the **shapes** further and **experiment** with different colours.

Artist Research- David Hockney, Abigail Reynolds and Rachael Elwell







Developments looking at colour, shapes, patterns and prints

1) Acrylic painting.



3) Polystyrene Print with Painting and Collage.



2) Simple shapes in Acrylic.



4) Polystyrene Print and Abstract painting.



I have used **shapes** inspired by Abigail Reynolds and **complimentary colours** inspired by Rachael Elwell.

Final Outcome Ideas

Size of outcome and equipment needed.

Label
what media yo
u will use and
experiment by
drawing a
section of it

You should be using your OWN photography to create your work.

ART

You should think of a range of ideas that you may want to do as your final outcome



Your ideas must show inspiration from your Artists.

You must show a clear link to your theme. (Africa, Asia, Egypt or Native America).

- Aim to have three different ideas.
- You will include your own photography.
- You will be practicing sections using your chosen media.

Business Knowledge Organiser Year 9 A1-Sp1



Dynamic -"constantly changing"

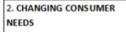
This change results in new businesses, and the development of new ideas



1. TECHNOLOGY

Results in products and services that are:

- Faster
- Smaller
- Cheaper
- Easier to produce
- Safer



- Fashions
- Economy
- Lifestyle
- Demographics
- Technology

3. OBSOLESCENCE

Products and services become outdated quickly. Some products are even designed only to last a short amount of time

"PLANNED OBSOLESCENCE"



up finance

Information

Finance

2. Risk and Reward Risk-"probability of a negative outcome happening" · Business failure Business success Financial loss Profit · Lack of security Independence RISKY BUSINESSES 1.Seasonal (cash flow) Reducing risk . . . 2. Highly competitive (sales) Business plan, market research, start-3.Owner's knowledge is poor

Inputs Resources such as: Outputs Business Energy Products Materials Production and (goods Technology and/or transformation services) People

3. The Role of Business Enterprise

1.1 Enterprise and Entrepreneurship

Customers

4. Added Value

A successful business will be able to add value o their products and services. This can be done by lowering variable costs, or adding something that will make customers pay more



£100 £30 Value addedi what the business adds £70 Price Variable cost

Calculating Value Added:

Selling price - production cost



5. The Role of Entrepreneurship

Entrepreneur -"a person who owns and runs their own business. They are risk-takers who have an initial idea and the willingness and confidence to see it through"



This change results in **new businesses**, and the development of **new ideas**



CREATIVITY

The act of turning new and imaginative ideas into reality.



INVENTION

Creation of a new idea or concept



INNOVATION

Turning a new concept into commercial success of widespread use

Benefits to the economy:

Creating products and services to meet needs, creating jobs, generating economic activity through consumer spending, exporting goods abroad

1.1 Enterprise and Entrepreneurship

FOCUS

Risk and Reward

Exam Focus



Risk

"The possibility that an enterprise will have lower than anticipated profits, experience a loss, or fail"



1.Business failure

Can occur because your business does not make enough sales revenue (lack of interest, poor market research, not meeting needs and wants). If your business is unable to purchase materials and continue it will fail



Businesses can be very expensive to run, and sole traders are likely to invest their personal money into the business.. They could lose their savings, and if things don't go well their personal possessions.

3. Lack of security

Choosing to set up on your own, often means you give up working for someone else where you would have been paid on a regular basis. This can mean you don't know when or if you will get paid (profits) from your business. This can make people feel very anxious

Reward

"The benefit (s) that an entrepreneur or investor receives when a business is successful. They include; business success, profit, independence"

1.Business success

Success can lead to a real sense of pride and achievement



2. Profit

REWARDS

If the business is successful the owner will take the profits as his earning. More profits, more money in the bank account!

3. Independence

Many people don't like being told what to do. Being an entrepreneur means to work for yourself and make all of your own decisions.

RISK

1.2 Spotting a Business Opportunity

1. Customer Needs

Convenience.

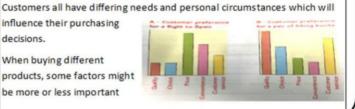
Customer Service

The ability to meet customer needs is important as it will encourage repeat purchase

and attract new customers. Quality Choice

influence their purchasing decisions.

When buying different products, some factors might be more or less important



2. Market Research

The purpose of market research is to help a business understand its customers, competitors and the market, in

which it operates, in order to make better business decisions

Purpose . . .

3

· Find gaps in the market

Price

- · Identify competitors
- Understand trends
- Reduce risk and inform decisions
- · Get feedback

	Prima	ry Research	Methods
1	Cumious	Analy	reie

1	Surveys	Analysis:
2	Focus groups	More accurate
3	Observations	Up to date
4	Experiments	Specific to needs
5	Questionnaires	Effective for qualitative data
6	Social media	Direct customer contact

	Secondary Research Methods					
1	Internet sites	Analysis:				
2	Local newspapers	More general				
3	Government reports	Less time-consuming				
4	Market reports	Effective for quantitative data				
5	Telephone directories	data				
6	Sales data]				

Limitations . .

- Expensive
- Time consuming (for small businesses)
- · Sample size—if too small, may not be reliable

BIAS

Research can be biased if customers give the answers they think the business wants them to give. Bias easily occurs by not surveying a 'representative' sample of people

RELIABILITY

In order to make good business decisions the market research and data collected must be reliable. Coming from a representative sample, being accurate and relevant

QUANTITATIVE

Information about people's opinions, judgements and attitudes



QUALITATIVE

Data that can be expressed as numbers and statistically analysed.



3. Market Segmentation

Market segment—"A group of buyers with similar characteristics



Methods of segmentation D Demography I Income G Gender A Age L Location L Lifestyle

Benefits:

- Meet specific needs
- Differentiate products
- Focus on specific groups of customers
- Target marketing activity
- Develop a unique brand image
- Build relationships

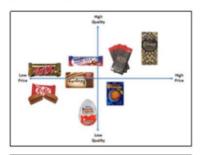
Drawbacks:

- Costly to cater for a range of customers
- Focusing on one type of customer, can mean your lose others
- · Characteristics change over time

4. Market Mapping

Used to find a 'gap' in the market, and a businesses position in the market.

Compares two variables; usually price and quality



Helps identify opportunities



Help identify close rivals/competition

Helps support market segmentation

Based on opinions rather than data

Compares on only two variables



1.2

Spotting a Business Opportunity

5. Competition

Head-to-head competition, is to have similar products and compete on PRICE

A different way to compete is through DIFFERENTIATION



Differentiation:

- 1. Wider product range (store/branches)
- 2. Better customer service
- 3. Stronger brand image (advertising)
- 4. More convenient location
- 5. Higher quality
- 6. Better design

Competitive Markets

Where there are a large number of businesses relative to the number of potential customers. Also true for commodity goods

Drawbacks:

- Low prices to attract customers
- Lower profit margins

FOCUS Market Research Methods





Secondary Research Methods (desk research)





Primary Research Methods (field research)

Surveys - this is about gathering people's opinions and information about your business/ service. To survey—is to gather information about a market or market segment



Focus groups - getting people together to review a product idea. Focus groups allow people to give their detailed feedback and ask questions. Usually small groups of 5-12, it also gives the potential customer a chance to see the product, or try it



Observations - this is where you watch the customer and see what they do. For example, you could set up a supermarket display and then see how many people pick up a particular product. You could watch a certain aisle and see what product attract customers more and use this in your own marketing



Experiments - including product trials you would ask potential customers to use (or eat) your product to get their reviews. Apple did this with the iPhone X when they sent phones to journalists and social media bloggers to try to product two weeks before launch



Questionnaires - A quick way to gather a lot of information from the public. Simple forms can include open and closed questions



Social media - polls can be used on social media, as can peoples comments in relation to posts. This can be an effective method of getting a lot of feedback very quickly, due to sharing and communities on social media websites like Facebook and YouTube



Internet sites - used to gain information about competitors as well as lots of other information. Quick to access and virtually free. Lots of information can be found



Local newspapers - newspapers can include names and adverts of other businesses and potential competitors.



Government reports - written about specific areas of government concerns like; health and obesity in the UK, transport reports, crime statistics



Market reports - written about purchasing habits and changes with a specific market; for example the confectionery, health and fitness or car market. Good for identifying trends



Telephone directories - excellent for identifying competitors and getting contact details. You could then use this information to find out about services and prices (competitor analysis)



Sales data - having sales data and sale reports can allow you to find trends in purchases, which can be liked to consumer wants and needs. If something is reducing in sales, perhaps it is becoming obsolete

Market Map

Used to identify competitors in your market, and any gaps that you could fill with your business idea.

Find a gap, come up with a USP and gain customers!!



1.3 Putting a business idea into practice

2. Revenues, costs and profits

Revenue - Total Costs = Profits

Revenue

Selling price x quantity sold (SP x Q = Revenue)

Businesses can have multiple income streams—regular customers, impulse purchases, families to try and increase profits, but this is only effective if costs can be kept low



Total costs

Fixed costs + variable costs (FC + VC = TC)

Costs include all the things that businesses have to pay for in the running of the business and the creation of the product.

- · Fixed costs—stay the same regardless of output
- · Variable costs—increase with output

Gross profit = Revenue *minus* Cost of Goods Sold (COGS)

Net profit = Gross profit minus operating expenses

1. Aims and Objectives

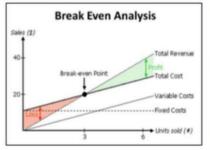
An **aim** is what a business wants to achieve; whereas an **objective** is a smaller step to help achieve the aim. Objectives should be SMART (specific, measurable, achievable, realistic and time-bound)

	Financial Aims		Non-financial aims
1	Survival	1	Social objectives
2	Sales targets	2	Personal satisfaction
3	Market share	3	Challenge
4	Profit	4	Independence and contro



Different aims and objectives

Businesses are likely to have different aims and objectives based on; the industry the business operatives in, the owners beliefs and priorities, and the length of time the business has been running.



Break-even point occurs when:

Total revenue = total costs

Contribution method

BE = <u>fixed costs</u> Contribution (Selling price—variable costs)

Margin of safety

Actual Sales (budgeted) - Break even point in units

3. Cash and cash flow

Total inflows - total outflows = net cash flow

Importance of cash

A business that does not have enough cash will be unable to pay bills, and therefore fail, even if it is making a profit. Managing cash flow can be difficult because not all customers pay for good when they purchase them (credit sales), as they will be invoiced to pay 30, 60 or 90 days later.

Effective cash flow management is necessary to avoid business failure through INSOLVENCY; and to:



- Maintain good relationships with suppliers—vital to ensure you keep receiving goods when you need them
- Enable to payment of overheads—electricity and other utility bills are essential and will be cut off if a business fails to pay
- Pay employees —wages, NI must all be paid every month (ON TIME)

The difference between cash and profit

Not all cash coming in is kept by the business—it is used to pay bills and other overheads. This will be the variable costs related directly to making the product, but also contribute to some of the fixed costs (rent. salaries)

Once all of the costs have been covered only then does a business have profit. Profit is money the business, or business owner, gets to keep.

	Jon	Feb	Mar	Apr	May	Jun
Select	200	150	175	250	125	350
Loon		0	0	0	500	0
Total Receipts	1200	150		250	625	350
Row Materials	150	200	310	200	230	
Von Costs	170	170	180	180	190	190
Interest	40	40	40	40	40	40
Total Payments	360		530	420	460	340
Not Flow	840	(260)	(355)	(170)	165	10
Book B/F	0	840	580	225		220
Bank C/F	840	580	225		220	230

4. Sources of business finance

At all times a business will need access to additional funds, and not just the cash from sales revenue. This can be used for day to day activities, purchases or growing the business.

Short-term sources

Used to help with a positive cash flow, for less than a year.

Trade credit	30,60,90 days. Buy now, pay later following an invoice. There will be terms and conditions that must be maintain with the supplier for this agreement
Overdraft	Banks will allow you to withdraw more than is in your ac- count, charged with interest so best used for emergencies only.

Long-term sources

Used for large purchases, and will take over a year to payback

Loans	L	Given by banks usually for between 3-10 years. Cash is received into the bank account very quickly once arranged. Paid bank monthly with interest
Retained profit	R	If the business is profitable, they can reinvest this money the next year
Crowd funding	С	Raising money telling people about your idea on the internet. Great for start-ups, but investors will want something in return.; discounts/freebies
Savings	S	Usually the owners capital put into the business at the start.
Venture capital	V	Given to the business by investors (Dragon's Den) they will remain an owner for a short period of time, then you have to buy them out
Share capital	s	Shares are sold, so people can be part owners in your business. Can raise large amounts, but you will lose control

1.3 Putting a business idea into practice

Break even occurs when total costs = total revenue

The business will NOT be making any money, but they will have paid for everything that they need to (costs, bills, paying staff) After the break even point the business will begin to make a profit with each additional item sold

FOCUS Break even

Exam Focus



Revenue

Comes into the business from the customer. Revenue is made with every item that is sold. Total revenue is calculated by selling price x quantity (SP x Q)

Total costs

Fixed costs + variable costs (FC + VC)

Fixed costs

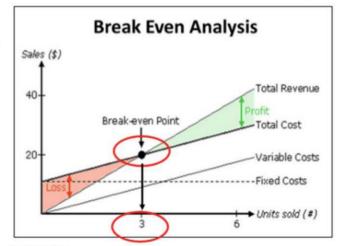
Stay the same, regardless of output

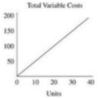
E.g., rent, salaries, advertising

Total Fixed Costs 30,000 20,000 10,000 0 10 20 30 40 Units

Variable costs

Change in relation to output. The more you make, the more it costs, E.g. Raw materials, ingredients. Variable cost per item x quantity will give total variable costs.





Lowering the break-even point, will mean that the business is able to make a profit selling fewer items.

The break even point can be lower through increasing revenue (advertising, increased prices, promotions) or by reducing costs (of raw materials, utilities)

Each option has different +/-'s

Glossary of Key Terms - explain in your own words

Key term	Meaning (in own words)	Key term	Meaning (in own words)	
Added Value		Supplier		
Business		Tangible		
Competition		Biased		
Consumer		Competitive Market		
Demand		Customer Needs		
Dynamic		Demographics		
Economy		Differentiation		
Enterprise		Gap in the market		
Entrepreneur		Market		
Financial Loss		Market map		
Goods		Market research		
Independence		Market Segment		
Obsolete		Primary research		
Profit		Qualitative data		
Reward		Quantitative data		
Risk		Questionnaire		
Seasonal Business		Reliability		Bus
Security		Repeat purchase		Business
Service		Secondary research		SS

Glossary of Key Terms - explain in your own words

		<u> </u>	•		
Key term	Meaning (in own words)		Key term	Meaning (in own words)	
Unique selling poin	t		Market share		
Aim			Negative balance		
Break-even point			Net cash flow		
Cash flow			Objective		
Contribution			Opening balance		
Cost			Overdraft		
Closing balance			Overheads		
Credit			Personal satisfaction		
Credit Limit			Personal savings		
Credit period			Profit		
Crowd funding			Retained profit		
Expenses			Revenue		
Income stream			Share capital		
Insolvent			Short-term finance		
Fixed cost			Social objectives		
Loan			Survival		П
Long-term finance			Trade credit		3usi
Loss			Variable cost		Business
Margin of safety			Venture capital		_ 0,

Creative iMedia – the media industry

Traditional Media Radio Print



I - L C - - - - - ! - NA - - !! -

Film

Keyword	Definition
Sector	An area that is distinct from others, i.e., job roles in TV or digital games.
Medium / platform	Range of services available on the internet
Production phase	Pre-production, production and postproduction
Skill type	Creative, technical or practical
Seniority	Junior, mid weight, or senior





Purposes of Media

Purposes

Media products always has a purpose. This purpose will have a significant impact on all aspects of the design of the product.

Advertise or Promote

Advertising is a method of promotion that is used to sell a product or service to viewers, readers or listeners.

Educate

Used in education all the time to teach skills or provide new knowledge.

Entertain

Some sort of media that you chose to look at and enjoy. It keeps you occupied

Inform

Media that is used to give instructions or information.

Influence

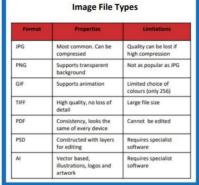
Media that encourages people to follow a certain movement, point of view or to make a purchase

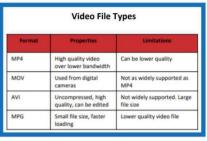
Influence	Examples				Ω
Colour	Advertise – bold colour and text to ensure the message is clear Inform – for official information, formal fonts, simpler muted colour scheme	1			reativ
Conventions of genre	Educate – formal and simple layout and formal language Entertain – the genre of entertainment media will influence the design of a product. For example, horror might use a lot of black and red.				reative iMedi
Tone	Entertain – tone is likely to be informal, relaxed as this information is being engaged with at the user's choice. Educate – language is likely to be more formal. Information is being presented as factually accurate and important. The age of the audience will also influence the tone.				dia – the
Positioning of elements	Advertising – the product will be placed in a prominent, often central position, or towards the beginning of a video to ensure the focus is on the correct element. Inform – information will be the prominent feature of the product				media
Style of audio representation	Inform / Educate – likely to have the information or learning content clearly explained, with any other audio elements in the background as not to distract from the key message Entertain – often a collection of sound elements combined for the listeners entertainment and interpretation and no one element needs to stand out.	t l			industry
Style of visual representation	Advertise – often has a visual style that mirrors the house style of the product brand. This car include font colours and the structure of the media product. Inform – graphics often follow conventions to ensure the users recognises the form of a graphic. This can involve the use of colour, fonts and layout as well as other consistent features such as consistent audio elements.	TRUST SMART CALM FAITH NATURAL STABLE POWER	LOVE IMMEDIACY ENERCY SALE PASSION ANGER HUNGER	BOLD RICH POWER MYSTERY ELECANCE EVIL STRENGTH	SOOTHING ECO-FREINDL NATURAL ENVY JEALOUSY BALANCE RESTFUL
్లాలు Book Genres ముక్క	<		orange	pink	purple
MYTH \$ OOOOO NOVEL FICTION SSSSSS FAIRY-TALE DRAJNA DRAJNA POEMS NATHS		CHEER ATTENTION CHILDISH FRESH WARMTH ENERGY OPTIMISM	HEALTH ATTRACTION STAND OUT THIRST WEALTH YOUTHFUL HAPPINESS	TENDERNESS SENSITIVE CARING EMOTIONAL SYMPATHETIC LOVE SEXUALITY	ROYAL MYSTERIOUS ARROGANT LUXURY CHILDISH CREATIVE SADNESS

Creative iMedia – the media industry









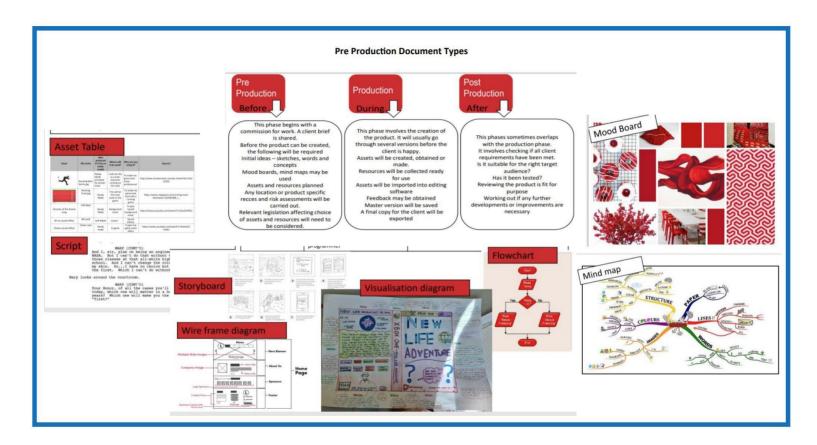


	A	Audience D	emographic	s	
Age	Gende	r	Location		Occupation
In most client requirements ther will be an age rang such as 11-16 rath than a single age. Everyone is too wi	mean men but should cr consider al such as tra	l identities nsgender and	Sometimes you requirements will detail of a local relevant to the local attraction based product international a	will include tion which is product for a If it's a web- in could be an	When looking at you brief you might need to consider the types of jobs that your audience may have.
Educ	ation	Income		Interests	/Lifestyle
your au impact	dience may on the type and content in your	of your produ need to cons of your audie is your produ	n the purpose uct you may ider the income ence. How much ict? What type e you creating?	For example, h pastimes, musi includes inform person's life, at it. Examples als healthy lifestyle	cal tastes. This nation about a nd how they live so include a



Audio File Types			
Format	Properties	Limitations	
WAV	Large file type, uncompressed, good for editing	Slow streaming, uploading and downloading	
AIFF	Large file type, uncompressed, good for editing	Slow streaming, uploading and downloading	
MP3	Compressed sound file. Faster for streaming	Some sound quality is lost. Usually undetectable from humans	
WMA	Compressed sound file. Faster for streaming	Some sound quality is lost. Usually undetectable from humans	

Creative iMedia – Pre-Production



Creative iMedia - Legislation

Intellectual Property Rights

Intellectual property (IP) is a piece of work, idea or an invention. The purpose of IP protection is to make sure that others do not profit from the work of the original author.

Protecting intellectual property

There are several areas of legislation that are used to protect intellectual property.

The protections cover:

- · Copyrighted material
- Intellectual property in the form of ideas
- Trademarks

Symbol	Meaning	
0	Copyright	
TM	Trademark	
@	Registered	

Copyright

This is a legal right automatically given that allows the owner to distribute, license and profit from its use.

Assume all published content is

- copyrighted. This includes
- · All content on the internet
- · Photographs Images and graphics
- · Books and magazines
- Music
- films

Patents

Not usually an issue for creative media work. It is generally applied to product inventions

Creative Commons Licences

CC BY: you can use it as long as you quote the source CC BY NC: You can use for noncommercial purposes, no profit can be made

GFDL: Share alike

Royalty free

Means the work can be used commercially without the need to pay royalties (a fee) each time. It is likely an initial one-off fee will need to be paid.

The concept of copyrighting ideas is an increasing concern and bigger issue with the internet. In creative media work a non-disclosure agreement is a good idea.

Trademarks Coca Cola

PERIDAYS Wendys Usually used to identify an organisation or product and are protected by the law. The general rule is, if you are referring to a company and use their logo in context with your work referring to them, this is ok, but you can't change any part of it. However, you can't use any part of another companies' logo as part of your own logo.

Fair Dealing

To use published

Contact the owner

Ask for permission

Be prepared to pay

Some limited use of copyrighted material is possible in certain situations. Including, research, private study, education, criticism and news reporting.

Health and Safety

Hazards and Risks in all phases of production

The hazards and risks vary depending upon the task being done and the phase of production. For example, pre-production and postproduction might include some computer work, whereas production could be an outside location or studio. It might be necessary to produce a risk assessment for one or more stages of producing a media product.

Risk Assessments

This is the first stage that identifies if there are any risks and hazards to health and safety during a project.

All possible risks should be identified and strategies to reduce the risk written down. Whilst a risk assessment cannot guarantee an accident won't happen, it should reduce the risk of one happening.

Four steps of risk assessment



Common risks and hazards found in media

Electric cables - on the floor trip hazard Electrical power - possible electric shock Repetitive strain injury - computer working Working at heights - holding a camera Moving heavy equipment

Location Recces

A recce is where someone goes to visit a specific location before product starts. The main purpose is to check access, see what is there, identify best positions and access environmental considerations. A recce should include:

- · Location how to get there
- Access and parking
- · Lighting, for example natural, artificial, direction
- Availability of power for lights or charging
- Health and safety requirements for example identify need for a risk assessment
- Environmental considerations, for example background noise, people
- · Any potential issues that might arise
- · Confirmation that the location is suitable

Recce example

Location	Used for	Potential issues	Actions required

Creative iMedia – Questions 1

Target Audience — How do you identify and analyze your target audience during pre-production?	Scriptwriting — What elements should be included in a script, and why is scriptwriting critical in pre-production? ———————————————————————————————————
Location Scouting — What are the essential considerations when scouting for locations?	Crew Selection — How do you assemble a production crew, and what roles are essential in a media project?
Risk Management— What are some potential risks in media production, and how can you plan to mitigate them?	Mood Boards— What are mood boards, and how do they assist in pre- production?

Creative iMedia – Questions 2

Storyboarding — How does storyboarding help in visualizing the final product, and what information should a storyboard contain?	Scheduling — What is a production schedule, and how do you create an effective one?
Equipment Planning — What types of hardware might be needed for comic production, and how do you determine the specific needs of your project? ———————————————————————————————————	Design and Pre-Visualization — How do design elements (like costumes, props, and sets) get planned and pre-visualized during pre-production?
Wardrobe Planning—What techniques are used to plan and coordinate ward-robe for a production?	Health and Safety Planning—How do you develop a health and safety plan for your production, and what are its key components?

Creative iMedia – Comic Books



Comic Conventions — Focal Points, Environments & Backgrounds

WHAT ARE FOCAL POINTS AND ENVIRONMENTS / BACKGROUNDS?



FOCAL POINTS are contained within every panel, they are simply designed to draw the readers eye to key points and support the story.

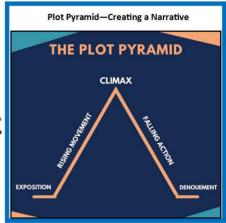
Your eye is drawn to her eyes here, this is the focal point, you look at her eye, then what she is looking a It suggests the character is looking for something...

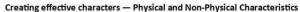


ENVIRONMENT / BACKGROUND are exactly what they sound like - they set up where the plot is set.

Here it is a little girls bedroom. You know this because...?





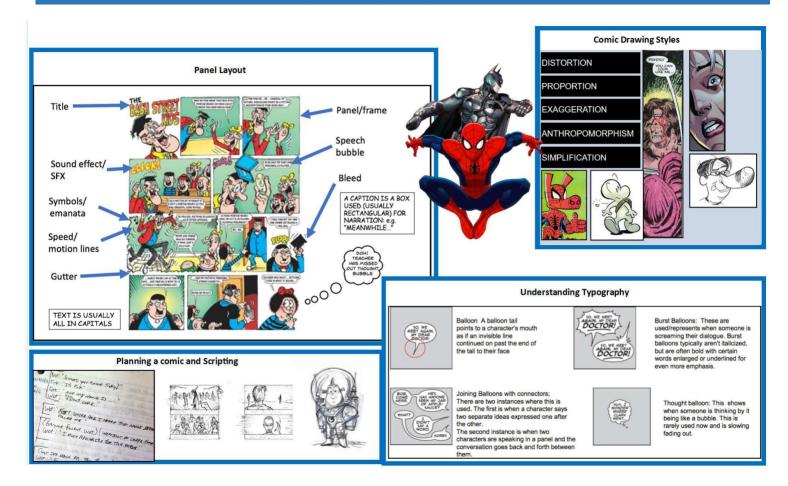


THIS WAS TO SHOW A
POWERFUL AMERICAN
SOLDIER TO THE PUBLIC
DURING WW2. THIS WAS USED
TO TRY AND INCREASE THE
NUMBER OF MEN JOINING THE
ARMY!

PHYSICAL: STRENGTH ENDURANCE AGILITY SPEED REFLEXES DURABILITY HEALING



Creative iMedia – Comic Books



Creative iMedia – Comic Books – Questions 1

Concept Development— What are the key elements to consider when developing the concept for a comic?
Storyboarding— What is a storyboard and why is it important in the comic creation process?
Pacing and Flow— How do you maintain a good pacing and flow in your comic to keep

Creative iMedia – Comic Books – Questions 2

Art Style - How do you choose the appropriate art style for your comic?
Script Writing — What should a script for a comic include, and how does it differ from a traditional story?
Copyright and Legal Issues— What should you know about copyright and other legal considerations when creating and publishing a comic?

Design and Technology - Timbers

Softwoods Pine

Spruce

Cedar

Fir

Comes from coniferous trees

This tree is an evergreen (green all year), needle-leaved, cone-bearing tree.

Hardwoods



Manufactured Boards





Softwoods

Generally easier to work with Grow faster More sustainable than hardwoods

Hardwoods

Generally harder Generally more expensive Grow more slowly

Generally more

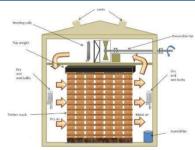
durable

Manufactured Boards

Consistent properties and more stable

Available in large sheets Economic and environmental benefits as made from lower grade timber

Kiln drying (seasoning)



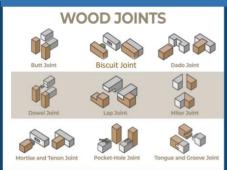
Ecological and social footprint

Trees are renewable (will regrow if planted) and timber is biodegradable (rot away) Timber products can be reused and can often be easily repaired Converting a tree into usable planks of timber uses much less energy than processing metals or polymers (therefore uses less fossil fuels)

FSC (Forestry Stewardship Council) is used to ensure that trees are from a renewable source and saplings are planted to replace trees that were cut down. Also ensures that, employment is local, workers are fairly paid, wildlife is protected.



Year 9 Design and Technology - Timbers

















Year 9 Design and Technology - Timbers

CAD - Computer Aided Design

High initial set up costs, high training need Can lose work through machine malfunction/breakage Can be cloud based allowing for collaboration CAD models allow for simulation before committing to making

CAD packages allow for changes to be made easily







onshape

CAM – Computer Aided Manufacture

CAM machinery can make products directly from CAD drawings

CAM very useful where large quantities of the same product are required due to its accuracy High initial set up costs, but can be offset as the machines don't need rest breaks as humans do Can lead to loss of employment, can have high maintenance costs, the technology can fail.









Polymers

Can be coloured and shaped to make products.

Most are synthetic and made from crude oil meaning they are unsustainable.

They come from renewable sources such as plant starch. Natural polymers e.g. biopol, are new and there are far fewer types.

PLA is the most common biopol and is used in 3D printing.

Thermoforming

Thermosetting

- Can be softened by heating and easily moulded to shape.
- Cooling hardens the polymer into the set shape.
- Can be re-heated and reshaped
- Can be recycled

- Cannot be reheated once formed and cooled
- Make excellent insulators
- Cannot be recycled

Surface Finishes

Surface preparation is key, use glasspaper to remove marks and smooth out before ensuring the surface is free from dirt, dust, oils etc.

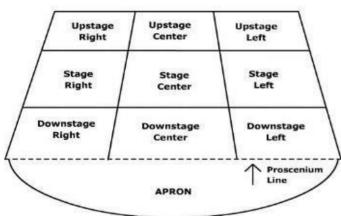
Wood stain	Oils
Preservative	Wax
Tanalising	Paints
Varnishes	Veneers ³⁸

\/ ^	— •	l 	-	
Vaar U	Decign and	LIACHDA		limharc
icai 3	Design and		IUEV -	HIHMETS
			\sim 6 /	

Describe what 'seasoning' timber means.	Many items of furniture are assembled using Knock Down (KD) fittings. What are the advantages to the manufacturer and the customer of	
	using these fittings?	
Explain why this is important.		
CAD and CAM are now widely used.		
What are the advantages and disadvantages of using CAD		
and CAM when designing and making		
products?		Explain why hardwood is considered by some to be an unsutainable material.
		some to be an unsutamable material.
	Why is it important to apply a surface	
	finish to	
	Patio Decking	
	Fine Furniture	
		39
		3.

Drama – Year 9.1

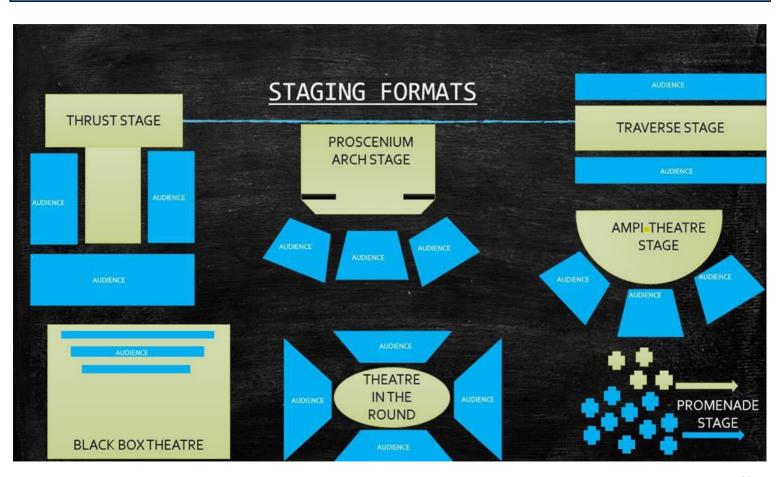
Stage layout. ALWAYS from the actors point of view. (When you are standing on stage looking at the audience)





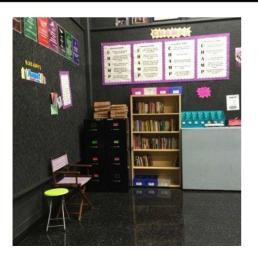
Key words: Gestures, Proxemics, Facial Expression, Rhythm,
Falsetto, Unison, Ensemble, Body Language, Plot, Emphasis, Diction,
Narration, Catharsis, Setting, Content, Stimuli, Time Period, Status,
Motivation, Sub Text.

Drama – Year 9. 2



Drama Year 9.3

DO'S of mime√	DON'Ts of mime
DO Exaggerate characteristics	DON'T Turn your back on the audience
DO Face the audience	DON'T Laugh on stage
DO Be confident!	DON'T Look at the floor
DO Carry on if things go wrong	DON'T Rush through your lines
DO Make eye contact with the character you're talking to	DON'T Be nervous, just try your best!



Elements of Drama Script:

The Text of the play

Cast of Characters: All of the characters, usually portrayed by actors

Narrator: The person who tells the audience what is happening during the performance.

Setting: The time and place Act and Scene: The chapters



Drama Year 9.4

VOCAL SKILLS		PHYSICAL SKILLS	
PITCH	INFLECTION	POSTURE	BODY LANGAUGE
PACE	PAUSE	STANCE	EYE CONTACT
TONE		GAIT	PROXEMICS
VOLUME		GESTURES	
ACCENT		FACIAL EXPRESSIONS	





EVALUATE

Consider several options, ideas or arguments and use evidence to come to a conclusion about their importance/success.

ANALYSE

Break down the topic or issue into its different elements to provide an in-depth understanding of each element.

EXPLAIN

Use examples and key terms to support an idea, giving detailed reasons behind the idea. (E.g. why?)

JUSTIFY

Use evidence to support an argument or idea.

DESCRIBE

Provide a detailed account in words of something.







The story of Noughts & Crosses

We follow the love story of Sephy and Callum, two young people kept apart by bigotry, terrorism and injustice. Sephy is a Prime Minister's daughter from the powerful Crosses who falls for rebel Callum, son of a dangerous nought agitator.



Drama Year 9.5

drama and theatre terminology and how to use it appropriately

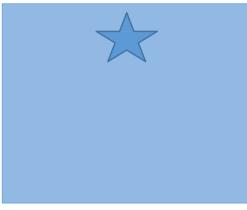
- stage positioning (upstage, downstage, centre stage)
- stage configuration
- theatre in the round
- proscenium arch
- thrust stage
- traverse
- end on staging
- promenade

the roles and responsibilities of theatre makers in contemporary professional practice.

- playwright
- performer
- understudy
- lighting designer
- sound designer
- set designer
- costume designer
- puppet designer
- technician
- director
- stage manager
- theatre manager.

Drama – Year Questions 1

1. What stage position is the star in?



Audience Audience Audience

- A Centre Stage
- B Upstage Left
- C Upstage Centre

2. In the professional theatre, who is responsible for studying another's role so they can take over if needed?

A The Lead Performer

B The Understudy

C The Director

Drama Year 9- Questions 2

3. What type of stage is this?



- A End-On
- B Traverse
- C In-the-round
- 4. When performing 'end-on' which area of the stage is strongest?

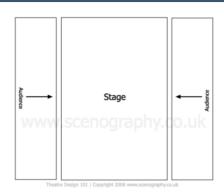
A Up stage right
B Down stage centre C Centre Stage

5. In the professional theatre, who is responsible for making sure all the props are found or made during rehearsal?

A Set Designer B The Director C The Stage Manager

Drama Year 9 – Questions 3

- 6. What type of stage is this?
 - A Traverse Stage
 - B Thrust Stage
 - · C. Proscenium Arch



- 7. What stage position is the star in?
 - A Stage Left
 - B Upstage Left
 - C Upstage Centre



Audience Audience Audience

- 8. When performing 'traverse' which of the following do you need to consider?
 - A You have to face only one side of the audience
 - B You have to change your position frequently
 - C You have to ensure you use low levels

English – An Inspector Calls – The plot

Act One – The play begins in 1912 with a dinner celebrating the marriage of Sheila Birling to Gerald Croft. Gerald gives Sheila her ring. Sheila and Sybil leave the room to try on wedding clothes. Eric goes upstairs. Arthur tells Gerald he knows the Croft family considers themselves social superiors of the Birlings, but that is easily remedied, he says, as he expects a knighthood for his business successes. Eric returns, and Arthur gives the two young men advice about life, saying that people ought to look out for themselves and their families, and not fall prey to socialist propaganda about the collective good. Edna, the maid, announces that an Inspector Goole is here to speak to Arthur. He announces that a girl named Eva Smith has died of an apparent suicide. The Inspector asks Arthur if he knows anyone by that name. Arthur initially denies it, but after seeing a picture, he admits to employing Eva at his factory, and firing her when she incites a failed strike for higher wages. Arthur says he is not sorry for doing so, even though he is sad to hear of the girl's death. Arthur believes that his foremost obligation is to his profits. When Sheila returns to the room, the Inspector begins interrogating her. It is revealed that Sheila got a girl fired from Milward's, a local shop, for giving Sheila mean looks as she was trying on clothing. Sheila regrets to hear that the person she incriminated was none other than Eva Smith, and that she and Arthur are responsible, in part, for Eva's poverty and suicide. The Inspector then asks Gerald if he knows someone named Daisy Renton. Sheila realizes, from Gerald's expression, that Gerald knows this name. When all but Sheila and Gerald leave the room, Sheila accuses Gerald of having had an affair with Daisy Renton the previous summer. Gerald admits to this. He asks Sheila to hide this information from the Inspector, but she says it will not be possible because the Inspector probably already knows.

Act Two begins with the same set. The Inspector questions Gerald about Daisy Renton, and Gerald admits to the affair in front of Sheila and her parents, Arthur and Sybil. Gerald is embarrassed by his indiscretion, but insists his concern for Daisy was authentic. Sheila wonders if she can forgive Gerald enough to continue their relationship. Gerald tells the Inspector he is going to leave for a walk. The Inspector moves on to Sybil, who, on being questioned, says that she, as director of a charity, refused assistance to a pregnant woman. The Inspector tells them that the girl Sybil turned away was Eva Smith, or, as Gerald knew her, Daisy Renton. The Inspector also says that Gerald was not the one who got Eva pregnant. Sybil says she feels no regret, as Eva/Daisy had claimed she was pregnant but was not married to the child's father. To this, Sybil responded that Eva/Daisy should ask the child's father for money, who Sybil blames for the situation, and for Eva/Daisy's suicide. Sheila and Arthur tell Sybil to stop talking. In this moment, Sybil realizes that her son, Eric, must be the father, since Eva/Daisy presented herself to the charity as "Mrs. Birling." Eric returns to the room.

Act Three, with the same set, begins with Eric admitting to an affair with Eva/Daisy, and to a drinking problem that makes many of the details hazy. The Inspector demonstrates that each member of the Birling family, and Gerald, has played a part in Eva/Daisy's suicide, and that all should consider themselves guilty. Before he leaves, the Inspector says that people must look out for one another, and that society is "one body." The Inspector departs. Sheila, wracked with guilt, wonders aloud whether the Inspector is a member of the police force. The family puzzles this out, and when Gerald returns, he says he spoke to a sergeant outside who does not know of any Inspector with the name of Goole, the man who just visited the Birling home. Arthur believes that the family has been hoaxed, and that this is a good thing, since their misdeeds will not now result in public scandal. Sheila resents Arthur's rationalization of the family's behaviour, and she says they are still guilty for Eva/Daisy's death, even if the Inspector was not a genuine officer. Gerald, however, notes that no family member saw the picture of Eva/Daisy at the same time, and that the Inspector might have conflated the family's stories by offering pictures of different women, and changing the names from Eva Smith to Daisy Renton. The phone rings, and Arthur answers. He alerts the family that a girl has been admitted to the hospital just now, and that her death is a suicide. As the play ends, Arthur relays to the family that a police inspector is headed to the house to begin an inquiry.

English – An Inspector Calls – Key Characters & Vocabulary

	Key Characters				
Arthur Birling	Represents the capitalist class that controls the wealth and means of production: more concerned with material gain and conventional attitudes. He is a wealthy factory owner in his mid-50s.	Sybil Birling	Arthur's wife of a higher class. An unsympathetic woman who represents the bourgeoisie (female) upper class. More than any other character, she is adamant that she is blameless in Eva Smith's suicide.	Gerald Croft	Gerald Croft represents the aristocracy, the highest class of society, comprised of rich land owners and people who inherit their wealth from their parents. Engaged to Sheila.
Eric Birling	Same age and of the same mind as his sister. He is adolescent in his manner ('half shy, half assertive', according to Priestly) and drinks too much, perhaps because he has not yet found a meaningful role in life.		Early twenties, bright, lively and optimistic. Unlike her parents and fiancé, she expresses deep regret for her role in Eva Smith's suicide.	Inspect or Goole	A mysterious figure. His name evokes the word 'ghoul', meaning evil spirit or phantom. He doesn't officially exist, and appears to have supernatural powers of perception and persuasion. Reflects Priestley's socialist views.

Key Vocabulary

ALTRUISTIC – having or showing a genuine concern for the welfare of others, not selfish, compassionate.

ARTISTOCRATIC – belonging to the aristocracy e.g. lords/ladies. Inherit their titles, wealth and land.

AUDACIOUS – showing a willingness risks, rash, bold, lack of respect.

BELITTING – dismiss someone or something as unimportant. **BOURGEOISE** – the wealthy, middle class, referring to being materialistic and obstinate attitudes.

CAPITALISM – an economic system which is driven by competition and motive to make profit.

CONDESCENDING – having or showing an attitude pf patronising superiority. **CONTRITE** – showing sorrow or remorse for doing something wrong.

DIDACTICE – to teach

DOGMATIC – arrogant attitude on false theories.

IMPERTINENT – being rude.

MATERIALISTIC – excessively concerned with material possessions, money orientated.

NAÏVE – showing a lack of experience, wisdom or judgement.

OBSTINATE – fixed, unwilling to change, stubborn.

OMNISCIENT – all seeing, all knowing.

OSTENTATIOUS – show off, pretentious.

PREJUDICED – having or showing a dislike or distrust that is based on a biased opinion.

PROLETARIAT - working class.

SOCIALISM – an economic system based on equal opportunities and fairness rather than competition.

STEREOTYPE – a widely held belief or idea.

SUBSERVIENT – willing to submit to others, to serve.

English – An Inspector Calls – Key themes, terminology & context

	Key Themes		Key Terminology
Collective Responsibility	This is the idea that everyone has a responsibility to each other. The Inspector tries to teach this lesson.	Stage Directions	Prompts that show what is happening on stage or how a character might deliver a line.
Gender	Eva Smith is discriminated on account of her gender. Every man in the play is able to exploit her due to the patriarchal society of 1912.	Contrast	Where two different things are placed together to highlight their differences.
Age / Generations	This theme explores the differences between the older and younger characters in the play.	Dramatic Irony	Where the audience is aware of something the characters in a play are not.
Social Class	This is the idea that society is split into three 'classes, based on wealth and social status. Eva is	Foreshadowing	Where clues are provided about what might happen later in a story/play.
	discriminated for being lower class and often belittled by those of higher class than her.	Symbolism	Using something to represent something else. E.g. the Inspector is a symbol for socialism.

Contextual information

Society in 1912 was dictated by rigid class and gender	Prie
boundaries. This meant little chance of progression for the	Labo
vast majority of the working class populated, but more so for	follo
working class women. By 1945, people wanted change and	mou
society saw protests for things such as better working	wan
conditions, housing, pensions, education and equal rights for	capi
women. Priestley wanted society to abandon the 'outdated'	for e
values of 1912, and move forward with a better society.	

Life in 1912 vs 1945

Priestley was fiercely political and an active supporter of the Labour party. He wanted to make radical social reforms following WW2. Priestley uses the Inspector as his mouthpiece to spread his socialist vision for the future. He wanted to highlight the issues he saw in society such as selfish capitalist attitudes and replace them with a society that works for everyone, not just the privileged elite.

Priestley's Socialist Vision

50

English – An Inspector Calls – Key quotations

Key Quotations				
ACT ONE	ACT TWO	ACT THREE		
"a man has to look at himself and his family too of	"Young, fresh and charming" – Gerald	"She was pretty and a good sport" – Eric		
course" – Mr Birling	"I hate those hard-eyed, dough-faced women" -	"I hate those fat old tarts" – Eric		
"working together for lower costs and higher prices" –	Gerald	"he treated me as if I were a kid, although I		
Mr Birling	"I was sorry for her" – Gerald	was nearly as old as she was" - Eric		
"as if we're all mixed up together like bees in a hive" –	"I didn't install her there so I could make love to	"Treated her as if she was an animal, a		
Mr Birling	her" - Gerald	thing, not a person" – Inspector		
"community and all that nonsense" – Mr Birling	"I didn't feel about her as she felt about me" –	"I've got to cover this up as quickly as I can"		
"creates at once an impression of massiveness, solidity	Gerald	– Mr Birling		
and purposefulness" – stage direction for Inspector	"I'm rather more upset by this suicide business	"You're not the type of father a chap can		
"We're respectable citizens and not criminals" - Gerald	than I probably appear to be" – Gerald	go to when he's in trouble" – Eric "Look		
"Public men, Mr Birling, have responsibilities as well as	"You and I aren't the same people who sat down	Inspector, I'd give thousands, thousands" –		
privileges" – Inspector	to dinner" – Sheila	Mr Birling		
"It had nothing to do with the wretched girl's suicide" –	"Girls of that class" – Mrs Birling	"We are all members of on body" –		
Mr Birling	"As if a girl of that sort would ever refuse money"	Inspector		
"You couldn't have done anything else" – Gerald	– Mrs Birling	"in fire, blood and anguish" - Inspector		
"Why shouldn't they try for higher wages?" – Eric	"I'm very sorry, but she only had herself to	"We all helped to kill her" – Eric		
"I'd have let her stay" - Eric	blame" – Mrs Birling	"he certainly didn't make me confess" –		
"It' better to ask for the earth than to take it" - Inspector	"You mustn't try to build up a kind of wall between	Mrs Birling		
"But it didn't seem to be anything very terrible at the	us and that girl" – Sheila	"he point is you don't seem to have learned		
time" – Sheila	"You're behaving like a hysterical child" - Mrs	anything" – Sheila		
"I felt rotten about it at the time and now I feel a lot	Birling	"It frightens me the way you talk" – Sheila		
worse" – Sheila	"You used the power you had to punish the girl" –	"It's what happened to the girl and what		
"If she'd been some plain and miserable little creature	Inspector	we all did that matters" - Eric "Everything's		
then I don't suppose I'd have done it" - Sheila	"I did my duty" – Mrs Birling	alright now Sheila. What about this ring?" Gerald		
"We can keep this from him" - Gerald	"Go and look for the father of the child. It's his			
"I don't come in to this suicide business" - Gerald	responsibility" – Mrs Birling	"The famous younger generation who know it all" – Mr Birling		
	"I did nothing I'm ashamed of or won't bear	-		
	investigation" – Mrs Birling	51		
	"I don't believe it. I won't believe it" – Mrs Birling			

English – An Inspector Calls – Key questions

- 1. Who is the writer of An Inspector Calls?
- 2. How many acts are in the play?
- 3. What does the word ALTRUISTIC mean? Which character could this word link to?
- 4. List the FOUR main themes in the play.
- 5. Give a quotation said by Eric.
- 6. Who says, "all mixed up like bees in a hive"? What language feature is used in this quotation?
- 7. Fill in the blanks: "They're not _____, they're people."
- 8. Who describes Eva as "young, fresh and charming"?
- 9. What political beliefs did Priestley have?
- 10. When was the play set and when was it written?
- 11. What is Eva's last name?
- 12. What device does the writer use throughout the play where the audience are aware of certain things that the characters are not?
- 13. What does the word OBSTINATE mean?
- 14. Define the word NAÏVE.
- 15. What is Gerald's surname?
- 16. What other names does Eva use? (Name both)
- 17. What is Mrs Birling's first name?
- 18. Give a quotation said by Mrs Birling.
- 19. Give a quotation said by the Inspector.
- 20. Which characters take responsibility for their actions at the end of the play? (Name both)

English – Lord of the Flies

• William Golding was a schoolteacher, so was drawing The pig's head (aka The Lord of the Flies) – re on his own knowledge and experiences when writing and the capacity for evil that the boys posses	
 about the dynamics between the boys. Golding returned from the war believing that anyone is capable of evil based on his experiences in the Navy. The social hierarchies in 1950s Britain are shown through the divisions between Piggy and the other boys. Golding drew on inspiration from R.M. Ballantyne's The Coral Island. However, the boys in this novel survive and act in a more civilised manner. The threat of nuclear attack during the Cold War is reflected in the fact that a bomb has dropped at the beginning of the novella. The conch – this too represents democracy and Once it shatters, Ralph is hunted like an anim Piggy's glasses – represent knowledge and cive they are broken, the old world disappears and they are broken, the old world disappears the represents the innate destruction which the boost. The dead pilot – symbolic because the war is beyond the island. The island is a microcosm world.	ess. and civilisation. mal. civilisation. When nd savagery rises. e island. It also boys are capable

English – The Lord of the flies – Key vocabulary and characters

	Key Vocabulary		Characters
Democracy	A way of governing/ruling a country which depends on votes from its people. Associated with fairness.	Ralph	Ralph is the primary representative of order, civilisation and democracy. His insistence of the use of the conch ties him to this key democratic symbol. While initially being described as a image of masculinity and strength, like the conch, Ralph's leadership becomes fragile. He demonstrates that everyone is susceptible to the dehumanising effects of losing civilisation
Tyrant	A cruel and oppressive leader. Rules through fear and violence.	Piggy	Piggy represents intelligence and logic. His glasses are a symbol of this intelligence and hope - a testament to mankind's scientific understanding. Physically he does not fit in and is of a lower class. As readers we partake in his bullying, only ever calling him 'Piggy'. He has a naïve faith in the infallibility of adults, He is a victim throughout. And only fully appreciated at the end of the novel.
Anarchy	A state of disorder, chaos, rioting.	Jack	Jack embodies what happens without the civilising influence of society—we become savages with dictatorial rule and ritualised violence. Golding uses Jack as a foil to Ralph, highlighting their leadership differences.
Civilised	To behave in a polite, dignified manner.	Simon	Simon can be interpreted as a Christ-like figure. He has an affinity with nature, seeks solitude, is kind and suffers from many hallucinatory/fainting experiences. It is through Simon that we hear Golding's message explicitly: he speaks with the Beast and thus loses his innocence, understanding that evil is within all humanity. Simon is killed by the boys, demonstrating the power of savagery and the mob mentality
Savagery	Cruel, violent and barbaric behaviour.	Roger	Roger represents the innate evil. His violence escalates quickly from throwing stones in Chapter 4 to "sharpening a stick at both ends" to the brutal, blunt murder of Piggy. Contextually, Roger represents people who take pleasure in their persecution of others when sanctioned by authority, such as Jack.
Conformity	To comply with expectations/ rules/laws.	Sam & Eric	Identical twins, Sam and Eric merge together and gradually lose their individual identities as the novel continues. This change represents how easily it is to forget or change our social conditioning and lose our sense of identity.
Microcosm	A little world. Where a large community/place has been encapsulated in miniature.	The Littluns	The littluns—remain mostly anonymous in the novel. However, the "boy with the birthmark" is memorable, therefore it's more apparent he is missing. This is the first death on the island and highly significant. Percival Wemys Madison's forgetting his phone number in Chapter 5 is just as significant, as it shows how social conditioning is beginning to fade. This makes the other littleuns cry in a display of existential angst as they realise their links to civilisation are fading too.

English – The Lord of the flies – Chapter summaries

Chapter Summ	aries:		
Chapter One	The Sound of the Shell: Some boys crash land on an island and elect a chief (Ralph) and he selects Jack Merridew to lead the choir, who become hunters. Piggy immediately		
	becomes the target of the other boys who make fun of him. Piggy finds a conch shell and shows Ralph how to blow it. The sound of the shell calls the boys together for assemblies		
	to discuss important matters. At the assembly, Jack, Simon, and Ralph decide to explore the island and find a trapped pig which gets away from them.		
Chapter	Fire on the Mountain: One of the littluns mentions a snake thing, a beastie, which sends fear throughout the group. They debate its existence and determine the littluns were		
Two	having nightmares. Ralph decides they need to make a fire on the mountain as a rescue signal. They use Piggy's glasses to light the fire. The fire rages out of control. One of the		
1000	littluns dies in the conflagration (a fancy word for large fire). Piggy and Jack argue.		
Chapter	Huts on the Beach: Jack is obsessed with hunting pigs although he has yet to catch one. Ralph and Simon work on the huts. Everyone else plays. Jack has started to become savage		
Three	in his quest for blood. Ralph and Jack argue. Simon wanders off, helps the littluns get fruit, and continues to an isolated location on his own.		
-	Painted Faces and Long Hair: Roger and Maurice bully the littluns on the beach. Jack paints his face for hunting. He leads the boys on a hunting expedition. As Jack and the hunters		
C. aptc.	are out, a ship passes by. Ralph realises the hunters have let the fire go out. He races to the top but is unable to light it in time. Jack and the hunters return with a pig. Ralph and		
Four	Jack argue. Jack punches Piggy in the gut. One of Piggy's lenses from his glasses breaks. The boys cook the pig and have a feast.		
Chapter Five	Beast from Water: Ralph tries to set things in order. He re-establishes rules regarding the fire. The subject of the beast is brought up. Jack argues the island is too small for a beast.		
Chapter rive	One of the boys claims the beast comes from the sea. The boys argue. Simon suggests that they are the beast. They all make fun of him. The arguing continues. Jack storms away		
	from the meeting with his hunters, who make horrific sounds in the darkness. Piggy begs Ralph to call them back with the conch. He longs for grown-ups to make things right.		
	961 - 9		
Chapter Six	Beast from Air: A plane is shot down high above as the children sleep. A dead parachutist lands on the island stuck in the rocks and trees. Samneric see the dead parachutist and		
Chapter Six	mistake it for the beast. The boys hunt for the beast on a new area of the island; they can't find it. Jack thinks he's found a good fort from which to throw rocks at people. After not		
	finding the beast, Ralph notices the fire has gone out. None of the others, especially Jack, seem to care.		
Chapter	Shadows and Tall Trees: The hunt for the beast continues. The boys come across a pig run and Ralph sticks a boar in the nose with a spear. The boar escapes. The boys act out a pig		
Seven	hunt with Robert playing the part of the pig. Even Ralph enjoys the spectacle. The quest for the beast continues until evening. Jack, Ralph, and Roger agree to scale the mountain.		
Seven	The three boys see the dead parachutist who they mistake for the beast and run away as fast as they can.		
Chapter	Gift for the Darkness: Jack calls a meeting, insults Ralph, and asks for Ralph to no longer be chief. Nobody else agrees. Jack, embarrassed, leaves the tribe and goes into the forest.		
Eight	The assembly continues. Simon suggests they go up the mountain. Piggy suggests they build the fire on the beach since the beast is on the mountain. The boys gather wood. The		
Ligit	littluns sing and dance. Roger, Bill, Maurice, and other biguns escape into the woods, following Jack. Simon has also disappeared into his secret spot. Hunters track down a pig and		
	kill it, offering it to the beast as a sacrifice. Flies swarm. The hunters race back to the beach to steal fire. Simon arrives at the pig's head after the hunters have left. He imagines the		
	pig's head is speaking to him. The pig's head tells Simon he can't escape. Jack's hunters raid Ralph's camp for fire and invite the others.		
Chapter	The View to a Death: Simon passes out and wakes up. He explores, discovers the truth about the beast, and heads immediately to the beach to tell the others. Meanwhile, all the		
Nine	boys have left the original camp to join Jack's hunters. Even Ralph and Piggy go. There's a dispute. It rains. Jack and his hunters begin their chant. Simon appears from the forest.		
	They kill him, mistaking him for the beast in their altered, crazed state. The dead parachutist is driven by the wind, over the boys, and out to sea. After the storm ceases, the boys		
	gather around dead Simon as his body is washed out to sea.		
Chapter Ten	The Shell and the Glasses: Ralph, Piggy, and Samneric are the only ones left in the original tribe. Ralph and Piggy express their horror over witnessing/participating in Simon's		
	murder. Jack and his crew have taken up residence at the fort. Roger approaches and is told of one of the boys (Wilfred) being tied up and whipped. Jack and his tribe have been		
Ch t -	transformed into savages. They plot to steal fire. They raid Ralph and Piggy's camp and steal Piggy's glasses. Castle Rock: Piggy declares his intention to confront Jack and demand his glasses back. Ralph blows the conch at the fort entrance on Castle Rock. Ralph and Jack fight. Ralph		
Chapter	demands Piggy's glasses. Jack's savages tie up Samneric. Piggy tries to talk sense into the savages. Roger wedges the giant rock loose. It smashes the conch and knocks Piggy off the		
Eleven			
Chanta	cliff. Jack and the others throw spears at Ralph, who runs away. Cry of the Hunters: Ralph flees and returns at night to speak with Samneric who are the new guards. They warn Ralph to go away. Ralph learns the tribe will hunt him the next day		
C.I.aptc.	like a pig. Roger is sharpening a stick at both ends. Ralph hides in a thicket. One of the twins gives away Ralph's location. They eventually fill the thicket with smoke. Ralph charges		
Twelve	out and runs for his life. The hunters pursue. Ralph notices the island has caught fire. The hunters chase Ralph down to the beach where he finds a naval officer there to rescue		
	them.		
	unum.		

English – Lord of the Flies – Key questions

- 1. What is the term used to describe a little world or where a large community has been encapsulated in miniature?
 - (a) Microorganism (b) Microscope (c) Microcosm (d) Microwave
- 2. Write the definition of the following word: Democracy
- 3. What is the name of the writer of 'Lord of the Flies'?
- 4. How do the boys end up on the island at the start of the novel?
- 5. What does the word TYRANT mean?
- 6. What symbol is used to represent democracy?
- 7. What is the name of the main character?
- 8.What is SAVAGERY?
- 9. What word, beginning with A, means a state of disorder, chaos and/or rioting?
- 10. What does CIVILISED mean?
- 11. What is the name of the character who could be interpreted as being Christ-like and saintly?
- 12. Which character is obsessed with killing a pig?
- 13. What collective name do the boys give to the youngest members of the group?
- 14. What are the names of the twins in the novel?
- 15. What does the word CONFORMITY mean?
- 16. Who is Roger?
- 17. What does Piggy represent in the novel?
- 18.In what chapter do the boys leave a 'gift' for the beast? What is that gift?

Food and Health & Social Care: Food Safety & Hygiene

Food poisoning

Food poisoning is caused by eating <u>something that has</u> <u>been contaminated with germs.</u>

This can happen if food:

- •is not cooked or reheated thoroughly
- •is not stored correctly for example, it's not been frozen or chilled
- •is left out for too long
- •is handled by someone who's ill or has not washed their hands
- •is eaten after its "use by" date

Any type of food can cause food poisoning.

The ratings scheme helps to raise standards by making hygiene information to customers.

A score of 5 means that the inspector witnessed very high levels of hygiene and food safety practices during their visit



Food poisoning bacteria

Bacillus Cereus

Staphylococcus Aureus

Clostridium Botulinum

Salmonella

Clostridium Perfringens











Ideal conditions for bacterial growth







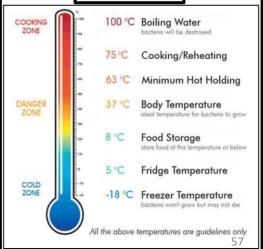
Pathogenic All bacteria bacteria can need grow well in moisture. high protein Most foods foods such have as poultry, enough for meat and bacteria to thrive. eggs.



Warmth

Most bacteria grow rapidly at body temperature (37C) but can grow between 5C and 63C (this is known as the 'danger zone').

Temperatures



Time

All bacteria grow by dividing in two. This process is known as BINARY FISSION and in ideal conditions 1 bacterium may become more than 1 million in just 3 ½ hours.

Food

Good food safety practices are essential because ...

The effects of poor food safety practices can include ...

List some examples of contaminates under each heading: **Physical**

Allergenic Chemical Microbial

Write down the 5 most important things that can be done to prevent pests in a kitchen.

- 2. 5.
- 3.

Food Safety & Hygiene

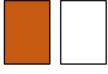
Which foods are cut on each chopping









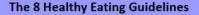


- 1. What is the most important reason for food handlers to have high standards of personal hygiene? a)To reduce the risk of biological contamination b)To improve working relationships with colleagues c)To remove the need to wear protective clothing
- d)To increase the time they need for training
- 2. Contamination is best described as: a)Combination of ingredients in a food
- b)Presence of any harmful substance or object in food
- c)Removal of stains from a chopping board
- d)Process by which milk is heat treated.
- 3. Which of the following is a physical hazard?
- a) Bleach b) spore plaster

c)

Food and Health and Social Care: Diet and good health





- 1. Base your meals on starchy foods.
- 2. Eat lots of fruit and veg.
- 3. Eat more fish.
- 4. Cut down on saturated fat and sugar.
- 5. Try to eat less salt not more than 6g a day.*
- 6. Get active and try to be a healthy weight.
- 7. Drink plenty of water.
- 8. Don't skip breakfast.





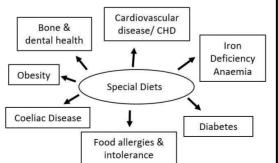








of an adult's reference intake Typical values (as sold) per 100g: 697kJ/ 167kcal



To make the To minimise product easier to bacterial contamination transport & store



For the convenience of the supplier. supermarket & customer

To provide information for the consumer ingredients, allergy etc

Packaging waste can be minimized by:

- Recycle as much packaging as we can using the correct coloured bins.
- Reuse packaging containers for storage e.g. ice cream containers, jam jars, yoghurt pots etc
- Use bags for life or traditional shopping bags
- Buy perishable foods from independent shops e.g. local butchers. Foods will be wrapped in a plastic bag/paper instead of a large plastic box
- Buy 'loose' fruit & veg rather than pre-packed

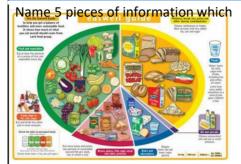


Task: Find the definitions /explain the following terms:

- 1.Undernutrition
- 2.Overnutrition
- 3.Malnutrition

Q: Discuss how **consumers** can help to reduce the environmental impact of food packaging.

Diet and Good Health



should be found on food packaging

- 1
- 2
- 3
- 4
- 5

Jade wants her 3 year old son to have a healthy, balanced diet. Describe how Jade can set a good example of healthy eating habits to her son Name the 5 sections of the Eatwell guide

- 1
- 2
- 3
- 4
- 5

Explain **why** each nutrient is needed by the body/what it does for the body

1

2

3

4

5

Food & H&SC: Human Growth and development

Age Group	Life Stage	Developmental Progress
0-2	Infancy	Still dependent on parents but growing quickly and developing physical skills
3 – 8	Early childhood	Becoming increasingly independent, improving thought processes and learning how to develop friendships
9 – 18	Adolescence	Experiencing puberty, which brings physical and emotional changes
19 – 45	Early Adulthood	Leaving home, making own choices about a career and may start a family
46 - 65	Middle Adulthood	Having more time to travel and take up hobbies as children may be leaving home; beginning of ageing process
65+	Later Adulthood	The ageing process continues which may affect memory and mobility



Intellectual development – describes how people develop their thinking skills, memory and language – for example, being able to learn, remember and recall information

Physical development – describes growth patterns and changes in mobility of the large and small muscles in the body that happen – throughout life. For example, infants begin to walk at around 13 months and can pick up small objects. By 3 years they can pedal a tricycle and draw a shape.

Emotional development – describes how people develop their identity and cope with feelings – for example, developing confidence to try new things and learn how to adapt to change.

> Social development – describes how people develop friendships and relationships – for example, developing the confidence and skills to join and participate in a group situation.

Factors which can affect growth and Development

Genetic inheritance – looks, body size/shape, traits, conditions

Experience of illness and disease – asthma, CHD, COPD, obesity, diabetes type 2.

Lifestyle choices – diet, exercise, alcohol, drugs, smoking

Appearance – self image, self esteem

Culture - gender, community, religion, expectations **Educational experiences** – exclusion from school **Role models**

Social isolation

Personal relationships – Marriage, divorce, parenthood Income and wealth – housing, location 61

Material possessions

What are the 6 life sta	ages an ages?	Food & H&SC: Human Growth and development	<u>Lifestyle choices</u>
Life stage	Age range		Explain how the following lifestyle choices can affect growth & development. Drugs –
Name 3 genetically in illnesses/diseases	nherited	Areas of Development Physical –	Alcohol –
1 2 3		Intellectual –	Diet –
Explain how addictio alcohol can have a n on a persons PIES gro development	egative effect	Emotional – Social -	Exercise –
		Social	Smoking –
			Appearance – 62

Food and H&S: Life Events

LIFE EVENTS – are expected or unexpected events that can affect development.

EXPECTED – is a belief that something is likely to happen.

UNEXPECTED – is not thought of as likely to happen.

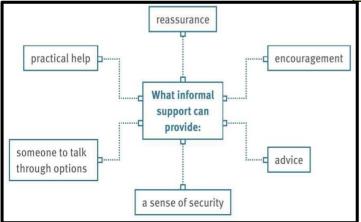
<u>Physical Events</u> make changes to your body, physical health or mobility.

<u>Relationship Changes</u> impact on informal and intimate relationships.

<u>Life Circumstances</u> impacts on day-to-day life and the choices you make.



Types of Life Events				
Accident/Injury	Bereavement	Changing Jobs		
Exclusion from Education	III health	Imprisonment		
Moving to a new school/college	Parenthood	Redundancy		
Divorce	Marriage	Retirement		
Entering into a relationship	Starting school/college	Moving house		



Professional Sources of Support

- GP
- Nurse
 - Surgeon
- Paramedic
- social worker
- Counsellor
 - Speech Therapist
- Domiciliary carer
- Care home worker
- Physiotherapist
- Careers advisor

Informal Sources of Support

- •Friend
- •Family
- Neighbour
- •Community groups e.g. church



Describe 2 life events you expect to happen in your future & 2 unexpected life events which could happen	Food & H&SC: Life Events	Life Circumstance	List Positive Effects
Expected Life Events 1		Moving Home	
2	S	Exclusion from Education Redundancy	
Unexpected Life Events 1	Explain how relationship shanges can	Imprisonment	
2	Explain how relationship changes can impact on our emotional and social development	Retirement	
	Emotional		
		Life Circumstance	List Negative Effects
		Moving Home	
Describe the type of support that can be given by informal carers	Social	Exclusion from Education	
		Redundancy	
		Imprisonment	
		Retirement	64
			<u> </u>

Le Français the basics - 1



Numbers



French	English	Cover the French and write the French!
zéro	0	
un	1	
deux	2	
trois	3	
quatre	4	
cinq	5	
six	6	
Sept	7	
huit	8	
neuf	9	
dix	10	
onze	11	
douze	12	
treize	13	
quatorze	14	
quinze	15	
seize	16	
dix-sept	17	
dix-huit	18	
dix-neuf	19	
vingt	20	

		670 699
French	English	Cover the French and write the French!
trente	30	
quarante	40	
cinquante	50	
soixante	60	
soixante-dix	70	
quatre-vingts	80	
quatre-vingt- dix	90	
cent	100	
mille	1000	
million	million	
siècle	century	
centaine	about a hundred	
dizaine	about ten	

12345678910



Ordinal Numbers



French	English	Cover the French and write the French!	Repeat!
Premier (1er)	First		
Deuxième (2ème)	Second		
Troisième (3ème)	Third		
Quatrième (4ème)	Fourth		
Cinquième (5ème)	Fifth		
Sixième (6ème)	Sixth		
Septième (7ème)	Seventh		

Match the numbers up





dix-neuf

mille

dix-huit

quatre-vingt-dix

soixante

quarante









Le Français the basics - 2

Days of the week / Jours de la semaine

French	English	French Sentence	Translation
Lundi	Monday	Je travaille lundi.	
Mardi	Tuesday	J'ai cours d'allemand mardi.	
Mercredi	Wednesday	Mercredi est mon jour de congé.	
Jeudi	Thursday	Jeudi, c'est mon anniversaire.	
Vendredi	Friday	Je vais faire du shopping vendredi.	
Samedi	Saturday	Le samedi est mon jour préféré.	
Dimanche	Sunday	Le dimanche est un jour de repos.	



French	English	French Sentence	Translation
Printemps 🎉	Spring	Au printemps, les fleurs s'épanouissent.	
Été 💓	Summer	Je vais souvent nager en été.	
Automne 🔝	Autumn	Les feuilles tombent en automne.	
Hiver 💮	Winter	Il neige souvent en hiver.	

Months

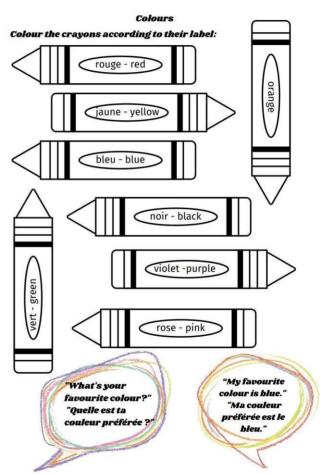
Season	French	English	French Sentence	Translation
	rrencii	Engusii	French Sentence	Translation
L'hiver	Décembre	December	Décembre est un mois de fête.	
•••	Janvier	January	Mon anniversaire est en janvier.	
30	Février	February	Je n'aime pas le février	
Printemps	Mars	March	Les fleurs fleurissent en mars.	
	Avril	April	En avril, la météo est capricieuse.	
A.	Mai	May	Il y a beaucoup de fleurs en mai.	
L'été	Juin	June	J'adore juin	
Ò	Juillet	July	Nous partons en vacances en juillet.	
	Août	August	Août est le dernier mois de l'été.	
Automne	Septembre	September	L'école commence en septembre.	
	Octobre	October	Il fait froid en octobre	
	Novembre	November	Novembre est souvent gris.	

Le Français the basics - 3

-

	W	eather!	
French	English	Cover the French and Write the Word	Repeat!
Le temps	The weather		
Il fait beau	It's sunny		
Il fait chaud	It's hot		
Il fait froid *	It's cold		
Il pleut	It's raining		
Il neige	It's snowing		
Le soleil	The sun		
Le nuage	The cloud		
Le vent	The wind		
L'orage (m)	The storm		
Le brouillard	The fog		

Weather



Le Français – the basics - 4

Countries

French	English	Cover the French and Write the French	Repeat!	
Algérie *	Algeria	· C		
Canada	Canada	*		
Angleterre	England			
France	France			
Madagascar	Madagascar			
Martinique	Martinique			
Royaume-Uni	United Kingdom			
Afrique 💮	Africa	*		
Amérique	America			
Asie	Asia	100 m		
Europe	Europe	14		
Fête nationale	Bastille Day 14th July			
Francophonie	French-speaking world			
Jour de l'An	New Year's Day			
Réveillon	New Year's Eve			
Paris	Paris			
La Tour Eiffel	The Eiffel Tower	<u> </u>		
Le Tour de France	The Tour de France	*		
Fête de la musique	World Music Day			

Verbs - The BIG Four!

AVOIR	TO HAVE
J'ai	I have
Tu as	You have
Il/Elle/On a	He/She/One has
Nous avons	We have
Vous avez	You have
Ils/Elles ont	They have

ALLER	то бо
Je vais	I go/am going
Tu vas	You go/are going
Il/Elle/On va	He/She/One goes/is going
Nous allons	We go/are going
Vous allez	You go/are going
Ils/Elles vont	They go/are going

FAIRE	ТО МАКЕ
Je fais	I do/make
Tu fais	You do/make
Il/Elle/On fait	He/She/One does/makes
Nous faisons	We do/make
Vous faites	You do/make
Ils/Elles font	They do/make

ETRE	то ве
Je suis	l am
Tu es	You are
Il/Elle/On est	He/She/One is
Nous sommes	We are
Vous êtes	You are
Ils/Elles sont	They are

Le Français – Key Verbs

Let's Practise - The BIG Four! Your Turn! Fill in the tables!

AVOIR	TO HAVE
	I have
	You have
	He/She/One has
	We have
	You have
	They have

ALLER	то бо
	I go/am going
	You go/are going
	He/She/One goes/is going
	We go/are going
	You go/are going
	They go/are going

FAIRE	ТО МАКЕ
	I do/make
	You do/make
	He/She/One does/makes
	We do/make
	You do/make
	They do/make

ETRE	то ве
	l am
	You are
	He/She/One is
	We are
	You are
	They are

Let's Practise - The BIG Four! Fill in the gaps and translate:

	titte gupo una ti unionite.
VOIR - TO HAVE	
e un chien.	
lous une grande maison.	
u des frères et sœurs ?	
lle un chat noir.	
ls beaucoup de devoirs.	
ILLER - TO GO	
.,,,	
2. Vous à l'école tous les jours	
3.Il chez sa grand-mère ce week-end	
4. Nous souvent au parc	
5. Elles en vacances demain	
AIRE - TO MAKE	
1.Je mes devoirs après le dîner	
2. Elle de la danse tous les samedis.	
3. Nous un gâteau pour l'anniversaire.	
4.Tu du sport tous les matins ?	
5.Ils une promenade chaque soir	
TRE - TO BE	
1.Je content aujourd'hui	
2. Elle une bonne élève	
3. Nous en vacances en juillet	
4. Vous fatigués après le travail	
5.Ils en forme pour le match	

Geography – Fieldwork 1

1. Introduction to Fieldwork

Definition: Fieldwork is the process of observing and collecting data about people, cultures, and natural environments.

Purpose: To apply theoretical knowledge in real-world settings, enhance understanding of geographical processes, and develop analytical skills.

2. Planning Fieldwork

Aim and Hypothesis: Define the purpose of the fieldwork.

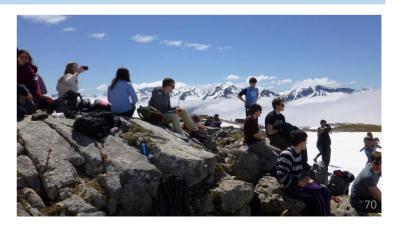
Aim: What you want to investigate.

Hypothesis: A statement you test (e.g., "Tourism has a positive impact on the local economy").

Location: Choose a relevant site for investigation.

Risk Assessment: Identify potential hazards and safety measures.





Geography – Fieldwork 2

3. Data Collection Methods

Primary Data: Data collected first-hand during fieldwork.

Questionnaires/Surveys: Collecting information from people. **Interviews**: Detailed information through structured conversations. **Observations**: Recording what you see.

Sampling Methods:

Random Sampling: Every individual has an equal chance of being selected.

Systematic Sampling: Every nth individual is selected.

Stratified Sampling: Population is divided into sub-groups and sampled within each

sub-group.

Environmental Quality Surveys (EQS): Assessing environmental factors.

Field Sketches/Photographs: Visual records of the site.

Secondary Data: Information collected from other sources. **Maps**: Understanding geographical layout. **Census Data**:

Demographic information. Internet Sources: Additional research

data.

4. Data Presentation

Graphs and Charts:

Bar Charts: Comparing different categories. **Line Graphs**: Showing trends over time.

Pie Charts: Proportional representation of data.

Maps:

Choropleth Maps: Showing variations in data across areas.

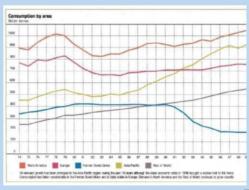
Dot Maps: Representing data points.

Annotated Maps: Adding notes to maps for clarity.

Tables: Organizing numerical data.

Diagrams: Visual representations (e.g., flow diagrams).





Geography – Fieldwork 3

5. Data Analysis

Descriptive Statistics: Summarising data (mean, median, mode).

Inferential Statistics: Making predictions or inferences.

Identifying Patterns and Trends: Recognising significant data points.

Comparing Data: Analysing differences and similarities.

Conclusion: Link your findings back to your hypothesis: did your investigation help you to

support

your hypothesis?

6. Evaluation

Assessing Methods: Reflect on the effectiveness of your data collection methods.

Identifying Limitations: Consider any constraints or biases. **Suggesting Improvements**: How could the fieldwork be improved? **Reliability and Validity**: Ensure data is accurate and credible.

Questions	Your answers	
What is the word given to a statement that you want to test during a piece of fieldwork?		
Why is it important to do a risk assessment before conducting a piece of fieldwork?		
List 3 different methods of	1.	
primary data collection that might be done during fieldwork.	2.3.	
List 3 types of sampling	1.	
that might be done during a piece of fieldwork.	2.3.	
Choose one type of data presentation (e.g., bar chart, pie chart) and explain why it might be particularly useful for representing geographical data.	73	

The Challenge of Natural Hazards

Definition of Natural Hazards

Natural Hazard: A natural event that poses a threat to people and property.

Types of Natural Hazards

Tectonic Hazards: Earthquakes, volcanoes.

Atmospheric Hazards: Hurricanes, tornadoes. Geomorphological Hazards: Floods.

Biological Hazards: Diseases.

Tectonic Hazards

Plate Tectonics Theory: Earth's crust is divided into plates that move due to convection currents in the mantle.

Plate Boundaries:

Destructive: Plates move towards each other

Constructive: Plates move apart

Conservative: Plates slide past each other

The Structure of the Earth

Crust: The thin, outer layer of the Earth.

Mantle: The thick, middle layer made of semi-

solid rock that moves slowly.

Outer Core: A liquid layer made of iron and

nickel.

Inner Core: The solid, central part of the

Earth.

Plate Tectonics Theory

The Earth's crust is divided into large pieces called tectonic plates.

Plates move due to convection currents in the mantle.

Plate boundaries are where most tectonic activity occurs.

Types of Plate Boundaries (see diagrams to the right)

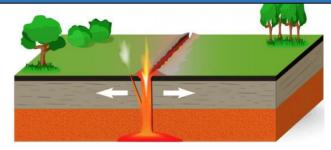
Constructive: Plates move apart, new crust forms (e.g., Mid-Atlantic Ridge).

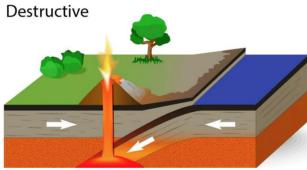
Destructive: Plates move towards each other,

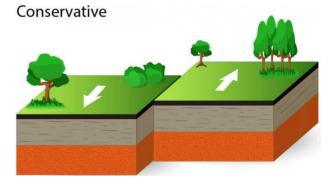
crust is destroyed (e.g., Himalayas).

Conservative: Plates slide past each other (e.g.,

San Andreas Fault).







Types of Hazards Found at Plate Margins Earthquakes

Caused by the sudden release of energy in the Earth's crust. Focus: The point inside the Earth where the earthquake starts.

Epicenter: The point on the Earth's surface directly above the focus.

Seismic Waves: Energy waves that travel through the Earth during an earthquake.

Measured using the Richter scale and seismographs.

Volcanoes

Openings in the Earth's crust that allow magma, ash, and gases to escape. Types of Volcanoes:

Shield Volcanoes: Broad, gently sloping sides (e.g., Mauna Loa). Composite

Volcanoes: Steep-sided, explosive (e.g., Mount St. Helens).

Tsunamis

Large sea waves caused by underwater earthquakes, volcanic eruptions, or landslides.

Can cause significant coastal damage.







Case Study of a Tectonic Hazard in a Poor Part of the World: Nepal (an LIC)

Overview

Date: April 25, 2015

Magnitude: 7.8 on the Richter scale Epicentre: Gorkha District, northwest of

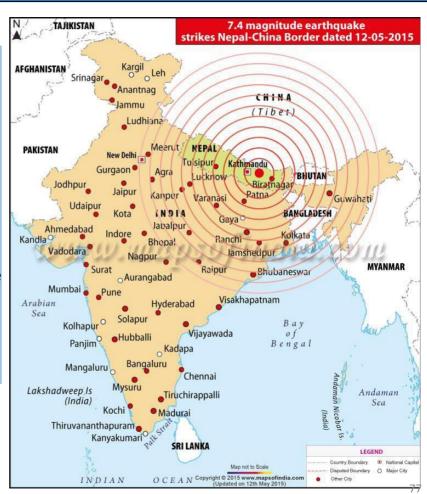
Kathmandu

Depth: Approximately 15 km (shallow focus)

Causes

Tectonic Setting:

Nepal is located on the boundary between the Indo-Australian Plate and the Eurasian Plate. The earthquake was caused by the sudden release of built-up pressure as these two plates converged and the Indo-Australian Plate was subducted under the Eurasian Plate.



Case Study of a Tectonic Hazard in a Poor Part of the World: Nepal (an LIC)

Primary Effects

- •Casualties:
- •Over 8,800 people killed
- •More than 22,000 injured
- •Damage:
- •Hundreds of thousands of buildings destroyed or severely damaged, including many historical sites.
- •Infrastructure damage: roads, bridges, and utilities.

Case Study of a Tectonic Hazard in a Poor Part of the World: Nepal (an LIC) Secondary Effects

- •An avalanche on Mount Everest killed 19 people.
- •Landslides blocked rivers, causing floods.
- •A lack of clean water caused outbreaks of typhus (which killed 13 people)
- •Estimated \$10 billion in damages, roughly half of Nepal's GDP.
- •Tourism, a major industry, was severely affected.









Case Study of a Tectonic Hazard in a Poor Part of the World: Nepal (an LIC) Immediate Responses

Search and Rescue:

International aid teams from countries like India, China, the UK, and the USA.

Local volunteers and the Nepalese army involved in rescue operations.

Medical Aid:

Emergency medical supplies and services provided. Temporary field hospitals set up.

Shelter:

Distribution of tents and tarpaulins for temporary housing.

Many people sheltered in open spaces due to fear of aftershocks.

Long-Term Responses

Reconstruction:

The government launched a reconstruction campaign with international financial assistance.

Reconstruction of homes, schools, and historical monuments.

Economic Aid:

Financial aid from international organizations like the World Bank and IMF.

Disaster Preparedness:

Implementation of better building codes and practices.

Investment in early warning systems and disaster response training.

Case Study of a Tectonic Hazard in a Rich Part of the World: New Zealand (an HIC)

Overview Date: November 14, 2016 **Time**: 12:02 AM local time

Magnitude: 7.8 on the Richter scale Epicenter: Near Kaikoura, South Island

Depth: Approximately 15 km

Causes

Tectonic Setting:

New Zealand is situated on the boundary between the Pacific Plate and the Indo-Australian Plate



Case Study of a Tectonic Hazard in a Rich Part of the World: New Zealand (an HIC)

Primary Effects

Casualties:

2 people killed Dozens injured

Damage:

Significant damage to buildings and infrastructure in Kaikoura and surrounding areas. Several buildings in Wellington, the capital city, were also damaged.

Geographical Impact:

Landslides blocked roads and railways. Coastal uplift of up to 6 meters in some areas.

Secondary Effects Tsunami:

Generated a small tsunami with waves up to 2 metres high.

Prompted evacuation warnings along the east coast.

Economic Impact:

Estimated \$2-3 billion in damages.

Impact on tourism and local economies, especially in Kaikoura.

Infrastructure:

Major highways and railway lines were severely damaged, disrupting







Case Study of a Tectonic Hazard in a Rich Part of the World: New Zealand (an HIC)

Immediate Responses

Rapid response from local emergency services and the New Zealand Defence Force.

Helicopter evacuations for stranded residents and tourists in Kaikoura.

Emergency medical teams provided first aid and medical support.

Field hospitals established for immediate care.

Temporary shelters set up for those displaced by the earthquake and landslides.

Distribution of essential supplies like food, water, and blankets.

Long-Term Responses

Government-funded rebuilding of infrastructure, homes, and businesses.

Repair and upgrade of the transportation network, including highways and railways.

Financial support packages for affected businesses and communities.

Initiatives to boost tourism in the affected regions once safety was assured. Enhanced building codes to improve earthquake resilience.

Public education campaigns on earthquake safety and preparedness.

Geography – Natural Hazards - Questions

Questions	Your answers
What are the three main types of plate boundaries? Describe what happens at each one	
What is a volcano, and how is it formed?	
List 3 primary effects of the 2015	1.
Nepal earthquake	2.3.
List 3 secondary effects of the	1.
2016 New Zealand earthquake	2.3.
List 3 immediate responses to	1.
the 2015 Nepal earthquake	2.3.
List 3 long-term responses to the	1.
2016 New Zealand earthquake	2.3.
Why were the effects in Nepal much worse than the effects in New Zealand? Explain your answer in detail.	82

History









Developing our understanding of comparison questions.



Renaissance Medicine

History. 1: The Events of World War Two							
	Key Words and meanings						
Air-raid	An attack by enemy planes dropping bombs.						
Allies	Countries (including Britain, France, the USSR and the USA) who fought the Axis Powers.						
Atomic bomb	A powerful weapon that could destroy a city. First used by the USA on the Japanese in 1945.						
Axis Powers	Germany, Japan, Italy and other countries that fought against the Allies.						
Blackout	A wartime ban on streetlights and other lights at night, to reduce the risk of bombing.						
Blitz	A prolonged period of German air raids on Britain. From the German 'blitzkrieg' which means 'lightning war.'						
Concentration Camps	Prisons where Jewish people and other prisoners were held by the Nazis.						
Evacuation	Moving people from dangerous areas to safer places e.g. from big cities to the countryside to avoid bombing.						
Fascism	Rule by dictators with unlimited power through suppression of any opposition and strict control of society.						
Genocide	The destruction of a whole people (usually an ethnic, racial, or religious group).						
Propaganda	Information used to promote a political cause or point of view.						
Invasion	When an army or country uses force to enter and take control of another country or area.						
Liberated	Freed from enemy control.						
Luftwaffe	The German air force during the war.						

History. 2: The Events of World War Two

Evacuation from Dunkirk, 26 May - 4 June 1940.

Operation Dynamo, the evacuation from Dunkirk, involved the rescue of more than 338,000 British and French soldiers from the beaches of Dunkirk. Churchill described Operation Dynamo as a "Miracle of Deliverance." In reality, the British and French army had been completely beaten by the Germans in a matter of a couple of weeks and forced into a humiliating evacuation.

The Battle of Britain, July 1940-September 1940

The Battle of Britain was the German attempt to destroy the British airforce, [the RAF], to clear the way for the invasion of Britain, codenamed Operation Sealion.

Unrestricted Submarine Warfare

Britain depended on imports from abroad to feed its people and from the start of World War Two, the German U-boats operated a policy of "Unrestricted Submarine Warfare" during the Battle of the Atlantic. The Germans wanted to sink all the supply ships on their way to Britain, to try to starve Britain in submission.

The Blitz, September 1940-June 1941

This was the night-time bombing of the British cities, by the German airforce, the Luftwaffe. The Nazis wanted to break the morale of the British people, so that they would want to make peace terms with Germany. It began with London, which was bombed every night for 57 nights from 7th September. Other British cities were also bombed,. By the end of the Blitz there were 50,000 civilians dead, 139,000 injured and over 1 million homes were destroyed.

The War on the Homefront:

(i) Evacuation

Britain had to organize very carefully to fight Word War Two. More than one million children were evacuated from the towns and cities. They were dropped off at stations in the countryside. It was compulsory to take an evacuee if you had space. The experience of the children varied. Some were abused but some were given a better life.

ii) The Blackout

To stop the Luftwaffe from seeing where to bomb, there was a strict blackout. It was illegal to show any lights in the dark. Air raid wardens ensured that everyone obeyed the black out.

(iii) Rationing

Rationing was introduced so that there was enough food for and to stop shop keepers putting up their prices. Everyone had a ration book and could buy the same amount of food. Clothes were also rationed. The rich bought extra food on the black market, but this was illegal.

History. 3: The Events of World War Two

(iv) Conscription

This was a compulsory call up to the armed forces. All men between 18 and 50 were conscripted unless they were too ill to fight or did an important job, e.g. running a farm. Women were also conscripted for war work, in the female branches of the armed services or as land girls or in the armaments factories.

The bombing of Pearl Harbor

On Sunday 7th December 1941 the Japanese airforce bombed the American navy which was based at Pearl Harbor in Hawaii. The attack **crippled or destroyed nearly 20 American ships and more than 300 airplanes**. 2,403 sailors, soldiers and civilians were killed and about 1,000 people were wounded. The surprise attack on Pearl Harbor brought the USA into the war.

The D-Day Landings

This was the landing of US and British troops in France, to start the invasion of Europe and drive Nazi Germany out. 156,000 Allied troops landed by sea and air on five beaches in Normandy: Juno/Sword/Gold/Omaha and Utah. D-Day would ultimately lead to the defeat Nazi Germany. The planning for D-Day was massive and it included the Mulberry Harbors and the Pluto Pipeline.

Was it wrong to drop the Atomic Bombs on Hiroshima and Nagasaki?

In 1945 President Truman argued that if the allies had to invade all of the Japanese islands, to end World War Two, it could cost the lives of half a million soldiers. Truman believed that if thousands of American lives were lost and later people realized that he could have used an atomic weapon, that there would be great anger in America. Many experts at the time believed that Japan would never surrender and that all the people of Japan would fight to the death, to defend their country. There was also anger in America at the Bombing of Pearl Harbor and the treatment of the allied prisoners of war and civilians prisoners.

On the other hand, the dropping of the bombs caused appalling death and suffering. People were literally melted by the blast and thousands who survived had horrific burns and died later from radiation poisoning. There are still babies being born with birth defects due to the radiation. It was a horrific weapon to use and many historians argue that the Japanese high command should have been shown a test explosion. It is also argued that Japan was on the verge of surrender and should have been given more time. It is also difficult to justify the dropping of the second bomb, before the Japanese had time to surrender.

History. 4: Medieval Medicine

c1250-c1500: Medicine in medieval England

What do we need to know about Medieval Medicine?

1 Ideas about the	 Supernatural and religious explanations of the cause of disease.
cause of disease	 Rational explanations: the Theory of the Four Humours and the miasma theory; the
and illness	continuing influence in England of Hippocrates and Galen

community and in hospitals, c1250-1500

Approaches to prevention and treatment and their connection with ideas about disease and illness: religious actions, bloodletting and purging, purifying the air, and the use of remedies.
New and traditional approaches to hospital care in the thirteenth century. The role of the

•Dealing with the Black Death, 1348–49; approaches to treatment and attempts to prevent its spread

physician, apothecary and barber surgeon in treatment and care provided within the

Overview:

cause of sickness.

Medieval people did not understand science. They believed in God, the most important force in their world and the reasons for everything, including sickness & disease. They also had supernatural

2 Approaches to

prevention and

treatment

3 Case study

beliefs, in evil spirits, witches and the devil.

There were also the theory of the four

humours and the belief in miasma as a

Key words:

Treatment – trying to cure sickness
Supernatural – Superstition.
Religious – Relating to God

Prevention – trying to stop sickness

Religious – Relating to God Purging – excess humours

Diagnosis – why people get sick

Ages

The Medieval Church was all powerful. Very few could read and only the rich got an education. Priests were all powerful in the villages. Most hospitals were run by

The Power of the Church in the Middle

the church and all universities.

Knowledge was controlled by the church.

New ideas were frowned on.

37

History. 5 : Medieval Medicine

M	edieval beliefs on the cause of disease		Medieval Preventions	The Black Death
1	RELIGIOUS God sends sickness/disease to punish sinners or to test the faith.		RELIGIOUS Prayer/lighting candles/mass/pilgrimage.	Bubonic plague that ravaged Europe. 1/3 rd population died. Caused by fleas that infected black rats. Arrived in England in 1348.
2	SUPERNATURAL Sickness and disease is caused by witches, demons or evil spirits or the movement of the planets, (astrology).		SUPERNATURAL Wear a lucky charm, e.g. a rabbit's foot; buy a potion or magic spell.	Beliefs on the cause of the Black Death: God/evil spirits/witches/a miasma released from a volcano/a malign movement of the planets.
3	RATIONAL: Four Humours Theory Sickness and disease is caused by an imbalance in the humours.		RATIONAL: 4 Humours: Keep the humours in balance – Use a Regimen Sanitatis, cleanliness etc.	Preventions for Black Death: Carry flowers/herbs/sit by a fire to burn off the miasma. Flagellants whipped themselves.
4	RATIONAL: Miasma Theory Sickness and disease is caused by a foul miasma, (smell).		RATIONAL: Miasma Theory Keep the house clean and sweet smelling to avoid disease.	Treatments for Black Death: Burst the buboes with a poker/put a dead bird on the buboes/paint with treacle or excrement.
	Medieval Diagnosis	Medieval Treatments		
1 RELIGIOUS Diagnosis through prayer/lighting candles/mass/pilgrimage.		1	RELIGIOUS Prayer/lighting candles/mass/pil	grimage.
2	SUPERNATURAL Diagnosis by casting a star chart.	2	SUPERNATUAL Magic spells and potions for the	sick.
3	RATIONAL: Four Humours Theory Using urine charts to examine, smell and taste the urine to diagnose which humour is out of balance.	RATIONAL: Four Humours Theory Bleeding or purging, (using an emetic or laxative), theory of op		•

Questions

Medieval Care-Givers

- **1 Physicians** trained at University, focused on 4 humours; no dissection allowed. Some also used astrology and/or prayer.
- **Barber Surgeons** trained as apprentices, working under a Barber Surgeon, did blood-letting, minor surgery, pulled teeth and cut hair.
- Apothecaries sold herbs and herbal remedies in the towns.

 Wise women in the villages did the same, sometimes the lady of the manor was skilled in herbs and herbal remedies. Some wise women dabbled in spells/magic.
- Women in the family they were the main caregivers in the middle ages. Most people never saw a professional healer. The main treatment would be the family herbal remedies.

Medieval Hospitals

Run by the church. No doctors. Some monks/nuns skilled herbalists. Main treatment = prayer, food & rest for the old, pilgrims and travellers. Pregnant women and the infectious were not admitted.

Retrieval Practice

- 1. What did medieval people believe about the cause of disease and illness?
- Why the Roman Catholic Church so important for medieval medicine?
- 3. What did the medieval church believe about new ideas in medicine?
- 4. Whose theories were supported by the Roman Catholic Church and why?
- 5. What was the theory of the Four Humours?
- 6. What was the theory of Opposites?
- 7. What were the supernatural/magical ideas about disease?

- 8. How did medieval people try to prevent disease?
- 9. How did medieval people try to diagnose disease?
- 10. How did medieval people try to treat/cure disease?
- 12. Who were the medical care-givers in the middle ages and how were they trained/
- 13. What were medieval hospitals like?
- 14. What was the Black Death?
- 15. Why did so many people die during the Black Death?

Year 9 Knowledge Organiser 3: Renaissance Medicine

c1500-c1700: Medicine in Renaissance England

What do we need to know about Medieval Medicine?

1 Ideas about the	 Continuity and change in explanations of the cause of disease and illness.
cause of disease	●A scientific approach, including the work of Thomas Sydenham in improving diagnosis. ●The

influence of the printing press and the work of the Royal Society on the transmission of ideas. •Continuity in approaches to prevention, treatment and care in the community and in hospitals.

•Change in care and treatment; improvements in medical training and the influence

in England of the work of Vesalius. 3 Case study •Key individual: William Harvey and the discovery of the circulation of the blood. • Dealing with the Great Plague in London (1665): approaches to treatment and attempts to prevent its spread.

Renaissance – rebirth of learning.

The Ancient World – the ancient civilisations of Greece and Rome.

Humanism – new attitude in learning that said God was not responsible for everything and encouraged people to investigate the natural world.

Dissection - cutting open the human body to study its anatomy The New World – the Americas which were discovered during (structure).

Physiology – how the body works. Eg; circulation.

and illness

treatment

Key Terms:

2 Approaches to prevention and

> This led to the declining influence of the Church in many areas.

developed to challenge the Roman Catholics; the Protestant

Church replaced the Catholic Church in some parts of Europe.

The Reformation – when a new protestant movement

Alchemy – an early form of Chemistry latrochemistry -Medical chemistry

the renaissance.

History 7

Overview of Renaissance Medicine:

The renaissance was a period of scientific discovery and great advances in knowledge about anatomy and how the body works. *The Church had less influence over education and fewer people believed that God and sin were responsible for disease. *Individuals like Vesalius, Paracelsus, Sydenham and Harvey were prepared to challenge old ideas and make new discoveries. By the end of the 1600s most physicians no longer believed the Four Humours. It was accepted by doctors that disease came from outside the body.

*Institutions like the Royal Society encouraged scientific thinking and experimentation and the spread of new ideas was speeded up by the printing.

<u>BUT</u> ...there was very little progress in treatment of the sick as the true cause of disease was still not known. Miasma was still the most commonly held belief on the cause of disease and even in 1700 some people still believed in the Four Humours, even though it had been discredited by scientists and doctors. Treatments were still based on the four humours, with bleeding and purging used because no new ones were developed. The response to the Great Plague in 1665 was different to the response to the Black Death in 1348 but it was no more effective.

Key Individuals in Renaissance Medicine:

Vesalius – professor of surgery at Padua University. Performed his own dissections. Corrected 300+ mistakes of Galen's. Revolutionised the teaching of medicine; encouraged medical students to do their own anatomy and research. After him anatomy became a cornerstone of medical teaching. Inspired others such as Harvey.

THE KEYPOINT TO UNDERSTAND IS THAT A LOT OF KNOWLEDGE WAS DISCOVERED IN MEDICINE DURING THE PERIOD OF THE RENAISSANCE, BUT IT DID NOT LEAD TO NEW PREVENTIONS OR TREATMENTS.

Thomas Sydenham The 'English Hippocrates' - insisted that doctors should observe patients carefully not rely on books. He said - disease came from outside the body; each disease had a separate cause; disease could be categorized into groups. This meant did not come from within the body as the Theory of 4 Humours said and every disease had its own cure.

van Leeuwenhoek – observed what he called 'animalcules' or "little animals" like ble under the microscope – first record of bacteria BUT THEIR ROLE IN CAUSING DISEASE WAS NOT UNDERSTOOD.

William Harvey — discovered that blood circulates around the body, not continuously made and used up, as Galen said. Harvey's work. Showed that because there was only a fixed amount of blood in the body the Theory of the 4 Humours and treatments like bleeding must be wrong.

History 8

History - Questions

Retrieval Practice

- 1. What was medicine like in the early renaissance period from 1500?
- 2. How did medicine change in the later renaissance?
- 3. What did the Protestant Reformation lead to?
- 4. How did the invention of printing impact on medicine?
- 5. What is 'humanism?'
- 6. Why was printing so important for medicine?
- 7. What new ideas were there in medicine during the renaissance?
- 8. How did ideas on the cause of disease change?
- 9. Why was the royal society important?
- 10. What changed and what stayed the same in prevention of disease?
- 11. What changed and what stayed the same in treatment of disease?
- 12. How did medical care change?
- 13. Why was Vesalius so important for medicine?
- 14. Why was Harvey so important for medicine?
- 15. What was the contribution of Sydenham to medicine?
- 16. Why was the Great Plague so serious?





Maths-Straight Line Graphs

Straight line graphs

The general format of a linear graph is

$$y = mx + c$$

where m is the gradient and c is the v intercept.

The equation of a linear graph can contain an x term, y term and a number.

Some examples include :
$$y = x$$
 , $x = 2$, $y = 5$

$$y = 5x + 6$$
, $y + x = 12$, $2x - 3y = 12$

Plotting linear graphs

To plot a linear graph we would use a table of values:

For example y = 2x + 3 (to calculate y, multiply x by 3 and add 1)

x	-2	-1	0	1	2
у -1		1 3		5	7

We use each pair as a co-ordinate (-2,-1)

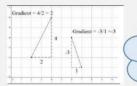


Gradient

The gradient of a line is how steep it is.

$$Gradient = \frac{change \ in \ y}{change \ in \ x}$$
 sometimes remembered as $\frac{Rise}{Run}$

The gradient can be positive or negative.



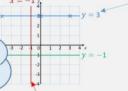
Gradient. intercept, parallel. coordinate, linear, reciprocal, perpendicular

Year 9 Knowledge Organiser

STRAIGHT LINE GRAPHS

Lines parallel to the axes:

All points on this line have y coordinates of 3



All points on this line have an x coordinate of -1

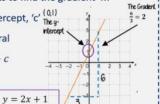
Equation of a straight line

Use these 3 easy steps to find the equation from a graph.

Use any two points to find the gradient 'm'



format y = mx + c



Parallel lines

If two lines are parallel, then they will have the same gradient. The value of m will be the same for both lines. If you are unsure what m is, make sure you rearrange into the form v =mx + c

Perpendicular lines

If two lines are perpendicular, then the products of their gradients will always be -1.

The gradient of one line will be the negative reciprocal of the gradient of the other line.

Maths- Real life graphs

Real life graphs

A plumber charges a £25 callout fee and then £12.50 for every hour. Complete the table of values to show the cost of hiring the plumber.

Time (h)	0	1	2	3	8
Cost (£)	£25				£125

The y intercept shows the minimum charge and the gradient represents the price per hour.

For this graph it would be C = 12.5h + 25

Direct Proportion graphs

To represent direct proportion the graph must start at the origin.

Example: A box of pens costs £2.30. Complete the table of values to show the cost of buying boxes of pens.

Boxes	0	1	2	3	8
Cost (£)		£2.30			

The gradient represents the price per pen.

For this graph the equation would be C = 2.3B

Some questions for you to try:

Here are the equations of 6 lines.

$$y = -x$$
 $x = 3$

$$y = 5 x = -5$$

Five of the lines have been drawn on the grid.

·x

Label each line and explain how you know.

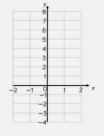
Sketch the graph of the sixth line.

Complete the table of values for y = 3x - 1

	76	50			
x	-2	-1	0	1	2
у					

Write down the equation of three lines that are parallel to y = 4x - 2.

On the grid, draw the graph of y = 3x - 1 for values of x = 3x - 1 for values of x = 3x - 1



Maths- Forming and solving equations

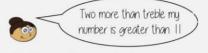
= 3Solving equations with unknowns on both sides Solve **Smallest number of x's** 4x + 5 = 3x + 24-3x -3x A visual to help x + 5 =24 24 -5 -5 19 24 Equation, inequality, variable, rearrange,

inverse operation,

substitute, solve

Forming and solving inequalities

Solving inequalities is the same method as solving an equation.



Find the possible range of values

Form an inequality:

$$3x + 2 > 11$$

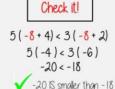
$$-2 -2$$

$$3x > 9$$

$$\div 3 \div 3$$

$$x > 3$$

Solving inequalities with unknowns on both sides



Year 9 Knowledge Organiser

FORMING AND SOLVING EQUATIONS



Inequalities with negatives

Method 1: Make x positive first

$$2 - 3x > 17$$

$$+3x +3x$$

$$2 > 17 + 3x$$

$$-17 -17$$

$$-15 > 3x$$

÷3

lassabas E

-5 > x

÷3

This means x is less than -5.

CHECK ITI 2 - 3(-6) = 20TRUE/ CORRECT

Method 2 : Keep the negative x

$$2 - 3x > 17$$

$$-2 \qquad -2$$

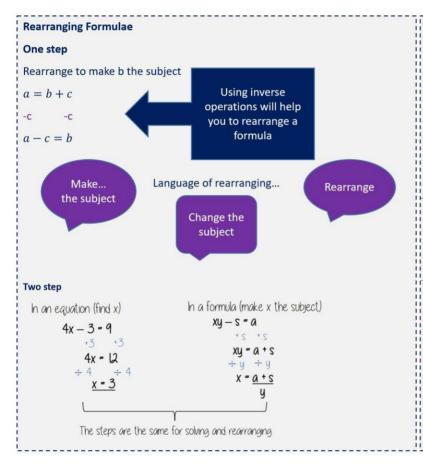
$$-3x > 15$$

$$\div -3 \qquad \div -3$$

$$x < -5$$

Notice that when we divide by a negative you need to reverse the inequality.

Maths- Rearranging Formulae



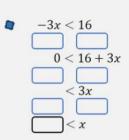
Some questions for you to try:

Fill in the blanks.

$$\begin{array}{c|c}
20 \ge 6 - 5x \\
+5x & +5x
\end{array}$$

$$5x + 20 \ge 6$$

$$\begin{array}{c|c}
5x \ge -14 \\
x \ge
\end{array}$$



Which of these formulae have A as the subject?

$$p = \frac{F}{A}$$

$$A = bh$$

-10 < -8

$$A = \frac{1}{2}bh$$

$$V = Ax$$

Here is an inequality:

Is the inequality still true if:

- 2 is added to both sides?
- Both sides are multiplied by 2?
- 2 is subtracted from both sides?
- Both sides are multiplied by -2?
- Both sides are divided by -2?

Which inequality is the same as x > 5?

-x > -5

Maths-Testing Conjectures

The language

Conjecture – a pattern that is noticed for many cases

Counter example - an example to show a conjecture isn't true.

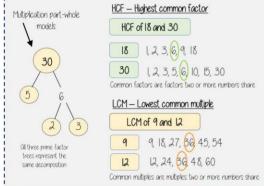
Always, Sometimes, Never true

Always - every value supports the statement

Sometimes – examples show that the statement can be true but counter examples show that it is false

Never – no example supports the statement

Factors, multiples and primes



Expanding Binomials

Remember: $2(x+2) \equiv 2x+4$

A visual representation



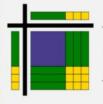
Olaebra tiles can represent a binomial expansion Has two terms

Olaebra tiles

Positive values

Expanding a pair of binomials

$$(x+3)(x+3) \equiv x^2 + 6x + 9$$



This is a auadratic It has four terms which simplified to three terms

You may have explored different methods to expand two brackets so check your maths book to help out if needed.

Some questions for you to try:

Expand:

a) (x+4)(x+3)

b) (x+3)(x+7)

Factor, multiple, prime, expand, binomial. conjecture,

counter example

Year 9 Knowledge Organiser

TESTING CONJECTURES



Some questions for you to think about

Are the statements on the cards always, sometimes or never true?

Multiples of 5

If always true or never true, can you explain or prove why?

If sometimes true, give examples of when and when not.

Multiples of 3 are also multiples of 6 also multiples of 3

Multiples of 6 are Factors of 6 are also factors of 60

Square numbers have an odd number of factors

Cube numbers have an even number of factors

The sum of two odd numbers is odd

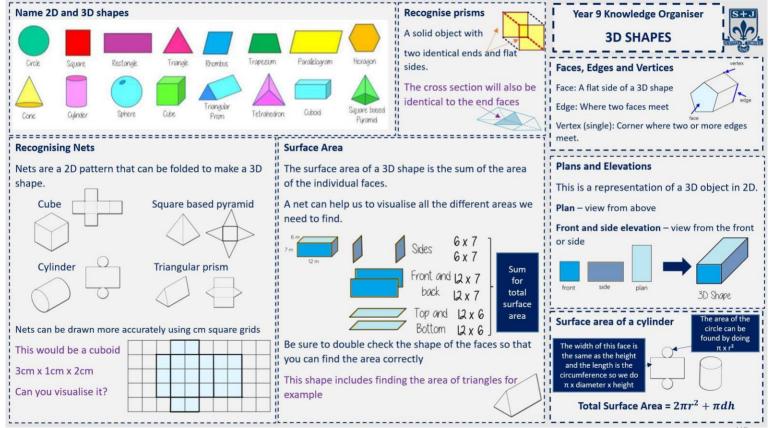
are odd

The square of a negative number is positive

Are these conjectures always, sometimes or never true?

- The LCM of two numbers is equal to the product of the numbers
- The squares of prime numbers have exactly three factors
- If n is odd, then n+3 is even
- If p is prime, then p-1 is even
- (n+1) multiplied by (n-1) is one less than n^2

Maths-3D Shapes



Maths-3D Shapes - Questions

Volume

Volume is the amount of 3D space an object occupies. (Capacity for liquids)

Sometimes it can be calculated by counting

the number of cubes that fit inside the shape.

Volume = 60cm³



Volume of a Prism

Double check you understand the definition of a prism

length

The volume of a prism is cross-section area × length

A cylinder shares the same properties as a prism but isn't one due to it not having flat surfaces. However, we can apply the same rule to calculate the volume. $V = \pi r^2 h$

Volume of other shapes

cross-section

You will go onto look at volumes of other 3D shapes including pyramids, cones and spheres. Could you do some research to find out the information you need to calculate the volume of these shapes?

A reminder for units

Area: square units e.g. cm²

Volume: cube units e.g. m³

2D, 3D, face, edge, vertex, cross-section, plan, elevation

Some questions for you to try:

Match each shape to its name.



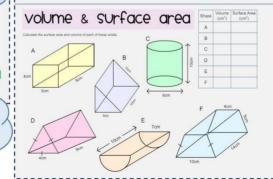
Some of the names do not have a matching picture.

Draw a sketch of each shape that does not have a match.

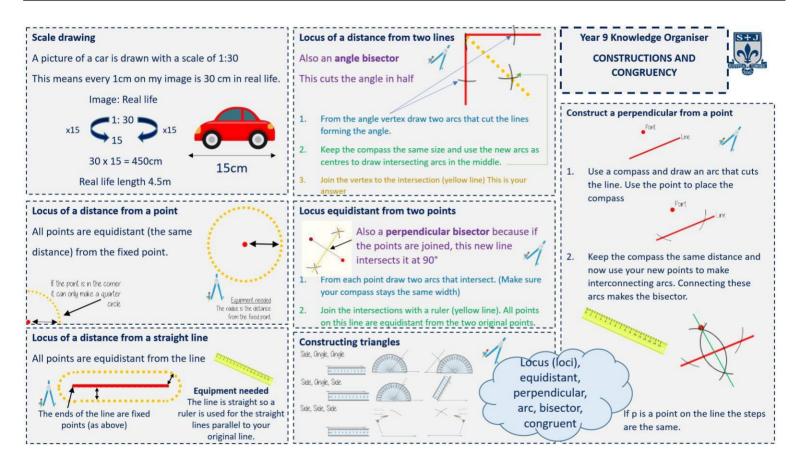
Draw the net of a 3×3 cm cube.

Compare it with a partner, did you both draw the same net?

How many different nets of a cube are possible?



Maths- Constructions and Congruency



Maths- Constructions and Congruency - Questions

Congruent figures

Congruent figures are identical in size and shape.

They can be reflections or rotations of each other.



Congruent shapes are identical – all corresponding sides and angles are the same size.

Congruent triangles

To prove that two triangles are congruent, we need to know that they meet one of these conditions:

SSS - Side, side, side





All three sides on the triangle are the same size





Two sides and the angle in-between them are equal (it will also mean that the third side is the same on both shapes.)

ASA - Angle, side, angle







11





RHS - Right angle, hypotenuse, side

The triangles both have a right angle, the hypotenuse and one side the same.

Some questions for you to try:

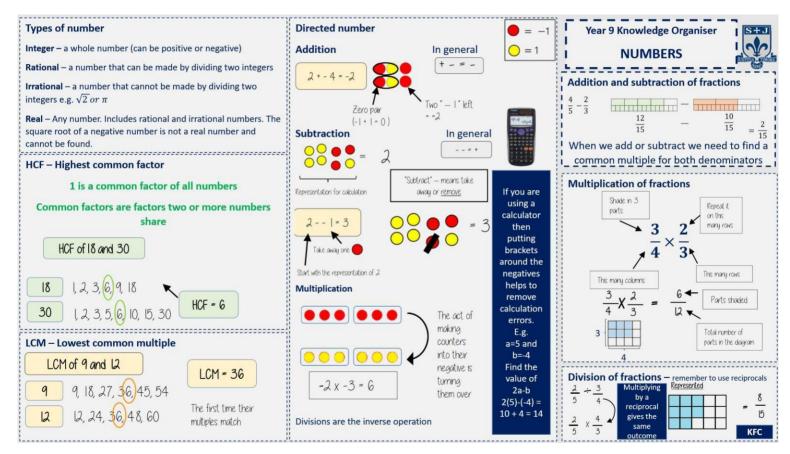
A model boat has length 7 cm.

The scale of the model is 1:80

Work out the length of the real boat, giving your answer in metres.

Use a ruler, pencil and pair of compasses to draw the locus of the points 2 cm away from this square.

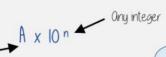
Maths- Numbers



Maths- Numbers - Questions

Standard Form

any number between I and less than 10



Integer, rational, irrational, product. multiples, factors,

Some examples

Adding

Dividing

$$(1.5 \times 10^5) \div (0.3 \times 10^3)$$

$$15 \div 0.3 \times 10^5 \div 10^3$$

$$=5 \times 10^{2}$$

Some questions for you to try:

For each card, find some possible pairs of values for a and b.

$$a+b=\frac{3}{4}$$

$$a - b = \frac{3}{5}$$

$$a+b=2\frac{1}{4}$$

Can you find fractions a and b that have the same denominator?

Can you find fractions a and b that have the different denominators?

Can you find fractions a and b that are both improper?

Can you find integer values for a or b or both?

Some questions for you to try:

Work out the calculations shown on the cards

$$-2 \times -5$$

$$-2 + -5$$

$$-2 - -5$$

$$-2 \div -5$$

Which of these numbers are integers?

a = 6

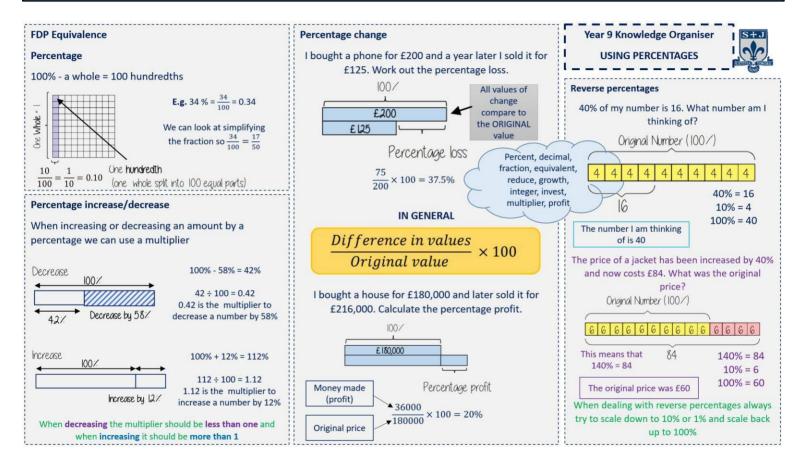
h = 4

$$c = -2$$

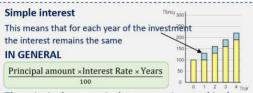
0

- \triangleright How many expressions can you find using a, b and c that have a value of 12?
- \triangleright How many expressions can you find using a, b and c that have a value of -20?
- \bigcirc What expression using a, b and c has the greatest value?
- \triangleright What expression using a, b and c has the least value?

Maths- Using percentages



Maths- Maths & Money



The principal amount is the amount invested in the account e.g. £100 at 30% simple interest for 4 years:

$$\frac{100 \times 30 \times 4}{100} = 120$$

OR Calculate 30% of 100 and multiply by 4 to calculate the total interest.

This account earned £120 interest and at the end of year 4, they would have £220 in total (this includes their original amount)

Thi inv

This means interest is added to the current value of investment at the end of each year so the next year's interest is greater.

IN GENERAL

Compound interest

Principal amount \times Multiplier Years

E.g. Invest 100 at 30% compound interest for 4 years

$$100 \times 1.3^4 = 285.61$$

This account has £285.61 in total at the end of 4 years.

The total interest would be £185.61

Year 9 Knowledge Organiser MATHS AND MONEY



Value added tax (VAT)

VAT is payable to the government by a business. In the UK VAT is 20% and added to items that are bought.

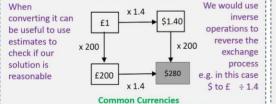
Essential items such as food do not include VAT

Credit, debit, balance, expense, deposit, multiplier, per annum, currency, unitary



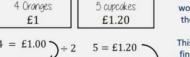
Exchange rates

Converting between currencies requires an exchange rate. For example £1 = \$1.40



UK £ Pounds
United States of America \$ Dollars
Europe € Euros

Unit Pricing



2 = £0.50 1 = £0.25 $\Rightarrow 2$ 1 = £0.20Cost per Unit

Cupcakes are the best value as one item has the cheapest value

To calculate the cost per unit we would divide by the number of units.

This allows us to find the cost of one.

There is a directly proportional relationship between the cost and the number of units.

Wages and taxes

Salaries fall into tax brackets which means they must pay tax each month. The amount is decided based on the annual salary of the individual.

These are the tax brackets in 2024. The salary is per annum.

Band	Taxable income	Tax rate
Personal Allowance	Up to £12,570	0%
Basic rate	£12,571 to £50,270	20%
Higher rate	£50,271 to £125,140	40%
Additional rate	over £125,140	45%

Maths- Percentages and Money- Questions

Some questions for you to try:



Convert the percentages to fractions in their simplest form.

35% 62% 84% 19% $3\frac{1}{2}\%$

Which is the correct multiplier to increase a number by 4%?

1.4

0.4

1.04

0.04

Which is the correct multiplier to decrease a number by 4%?

96

9.6

0.96

0.096

Last year Seb paid £568 for his car insurance. This year he has to pay £715 for his car insurance. Work out the percentage increase in his car insurance. Give your answer to 1 decimal place.

Match the multiplier with the correct percentage statement.

Increase by 20% Increas

Increase by 100%

Increase by 12%

Increase by 2%

Increase by 1.2%

1.012

1.02

2

1.2

1.12

TETRA-BANK

3% compound interest for the first year 1% for each additional year.

BANK OF CLARITY

1.7% compound interest per year.

Which bank will pay more interest on £3500 invested for 3 years?

A camera costs \$400 in the United States.

The same camera costs £325 in the UK.

The exchange rate is £1 = \$1.25

Is the camera cheaper in the United States or in the UK?





I converted £325 into \$ by doing 325 \times 1.25

I converted \$400 into £ by doing $400 \div 1.25$

Are both approaches correct? Explain why or why not.

Music – Year 9.1

Skill building

Musical genres/styles

Autumn term = Jazz/Blues



The 12-bar blues is a chord progression that lasts for 12 bars, it is one of the most popular and influential chord progressions.

12-bar blues chord sequence in C

F F C C	
	F C C
G F C C	F C C



Key words	Definition
Blues	Music of black American folk origin, usually following a 12-bar sequence.
Walking bass line	A series of notes that moves in step and creates a 'walking' feeling and sense of movement
Blues scale	A 6 note scale consisting of C, Eb, F, F#, G, Bb, C
Improvisation	When musicians perform something that has not been rehearsed or preprepared.
Chord	Two or more notes played at the same time
Virtuosic	When a musicians shows off their skill

Music – Year 9.2

Autumn term = Jazz/Blues

Skill building



Jazz music originated in New Orleans in the early 20th Century. Subgenres developed overtime and 'Jazz' developed from 'swing' and the 'big band' sound to subgenres such as; Bepop, cool jazz, jazz fusion.

One famous Jazz musician was Miles Davis. Miles Davis was a jazz trumpeter. He was a composer and band leader. He is seen as one of the most influential jazz musicians.

<u>Musical numbers may include:</u> Solo: a song for one singer.

Duet: a song for two singers. **Trio**: a song for three singers.

Ensemble: a song sung by a small group. Chorus: a large group (usually the full company/cast). Recitative: a vocal style that imitates the rhythms and accents of speech. Overture: an orchestral introduction to the show, which usually uses tunes from the show. The orchestra/band is used to accompany the voices and to underscore.

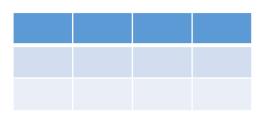
Key words	Definition
Scat	A vocal technique where the singer improvises using vocables instead of lyrics.
Vocables	A song that uses syllables instead of words with meaning.
Swung	Off-beat rhythms which gives the music a bouncy 'swung' feel
Sub-genre	A musical genre that takes influence from a certain genre whilst having new characteristics.

Learning to appraise music; DR PAT SMITH

D=	Dynamics	S= Structure
R=	Rhythm	M= Melody
P=	Pitch	I= Instruments
A =	Articulation	T=Texture/tonality
T=	Tempo	H= Harmony 108

Music – Questions

Fill in the blank chord chart with the correct chords for the 12-bar blues in C.



Are the following statements true or false?

- 1) Jazz music originated in Africa.
- 2) A famous jazz trumpeter was Miles Davis.
- 3) The blues scale is a 6 note scale.
- 4) Improvisation is when a musician shows off their skill
- 5) The 12 bar blues is a popular blues chord progression.

Name songs that are influenced by the 12-bar blues and say how.

Complete to make the following acronym correct.

D = Dynamics R = Rhythm P = Pitch A = T =

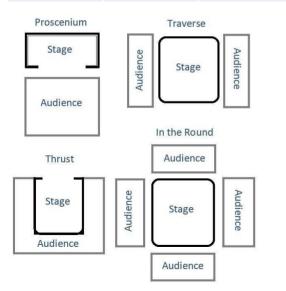
M = Melody I = Instruments T = H =

Key word	Definition
Soloist	
Ensemble	
Trio	
Duet	
Chorus	
Recitative	

Name a famous Jazz musician, what do you know about this musician?

Where did the blues originate and how?

Upstage	Upstage	Upstage
Right	Centre	Left
Centre stage	Centre	Centre stage
Right	stage	Left
Downstage	Downstage	Downstage
Right	Centre	Left



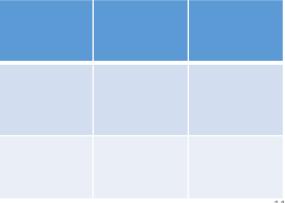
This scheme will look at the technical side to theatre. Focusing on set, sound, lighting, costume, roles and responsibilities within theatre.

Key words	Definitions
Stage configurations	The ways the audience and stage are set up
Lantern	The technical name for the lights
Technician	The people who work and program the lights or sound
Designer	The people who sketch out ideas for the costumes, light or set
Director	The person who organises the overall creative vision of the show
	110

Question	Your answer
What is a lantern?	
What things might a designer design?	
What are stage configurations ?	
Can you give three examples of stage configurations?	

Can you draw the three stage configuration you have listed above:

Can you fill in the stage positions:



Further developing your **analytical** and your **evaluative skills** we will look at various musicals, looking **at design elements, actors performances, themes and issues** and practically **exploring extracts** from the musicals too.

Type of musical	Definitions
Book musical	Usually based on a pre existing story. These shows are then developed with songs interwoven into the story. Example – Wicked
Jukebox musical	A jukebox musical is made out of songs that have already been written. Example – We Will Rock You
Concept musical	A concept musical is one in which the overall storyline and featured songs are equally vital to the topic, metaphor, or concept. Example - Rent
Historical musical	These musicals look at a moment in history and explore the moment through song and dance. The styles of songs can match or contrast the era. Example – Les Miserable
Rock Pop Musical	In these musicals, the narration changes, but the music tells the majority of the story. Its status as a rock/pop musical is due to this. Example – Jesus Christ Superstar

Musicals must have: A clear storyline Songs Dance

Key skills as a performer within a musical: Facial Expressions Projection Body Language Gestures Gait Rhythm Audience awareness Diction Communication Team work

Job role	Responsibilities
Playwright	A Playwright often works in their own time writing plays which can then be published or taken on by a theatre company to perform.
Lyricist	A lyricist writes the words or lyrics to a song. They typically collaborate with a composer or songwriter who creates the music to accompany the lyrics
Stage manager	Organises the day to day running of a theatre company from rehearsals right through to performances and then post-show. They liaise and communicate with the full company and organise each team to ensure the smooth running of a production

The **themes** that are commonly explored in the drama include **love**, **betrayal**, **power**, **ambition**, **and family**. The **issues** may be things like **global** warming, **cost of living crisis**, war to name a few.



Traditionally musical theatre productions stage configuration is a proscenium arch where the audience are all facing the same direction. They are usually sat on tiered seating.

Performing Arts Year 9 - Questions

What type of musicals are these?





Can you list 3 roles within the theatre and an overview of what they do:





5 key skills you need as a performer:

What is the difference between themes and issues?

Traditionally musical theatre performances take place in a Proscenium Arch stage configuration. Can you describe this configuration.

Physical Education – Participation Policy

- •It is expected that your child brings full kit and changes into it for every physical education lesson even when a note has been written to excuse them from active participation in the lesson.
- •The reasons for this are that, in addition to performance, part of their assessment and curricular provision comprises several other factors. Including;
 - Understanding the health related components of physical education
 - Evaluating their own and others performance.
 - The role of the coach, referee or umpire etc.
 - Some students may still be able to participate in certain aspects of the lesson for example the warm up to maintain fitness and involvement of the lesson.
- •In view of this your son/daughter, whilst possibly excused from active performance is expected to officiate, coach and organise, for example, warm up and cool down activities for the rest of the group.
- •If your son/daughter arrives at the lesson without appropriate PE kit, we will provide kit from the supply we have in school.

I have read and understand the PE policy for participation

Signed (Parent/Carer)	
•Signed (Child)	
• Date	

Physical Education – Badminton

Key skills: READY POSITION – balanced position, side on, racket up and ready, on toes.

SERVING –There are several types of serve – short/backhand, long ,flick. A backhand serve should land close to the service line on your opponents side of the net. The racket head must start from below the waist.

UNDERARM CLEAR (long serve) – This shot is played high to the back of your opponents court. Start sideways on and use a whip action with the wrist to create power.

OVERHEAD CLEAR – Played to the back of your opponents' court and is a defensive shot. Start sideways on, racket up and behind you, focus on making contact with the shuttle in front of you.

DROP SHOT- a shot played with finesse to land the shuttle as close as possible to the net on your opponent's side.

SMASH SHOT – This is the main attacking shot in badminton. It is an overhead shot, hit in front of the body, that aims to get the shuttle down on the floor at a sharl angle. The wrist needs to "snap" to get it down.

TACTICS - **Hitting into space** – moving partner aroun the court

Shot selection – selecting the right shot for the right situation

Targeting opponents weaknesses

Disguised shots – trying to make it look like y are going to play a particular shot but t pla different shot to fool an opponent.

Doubles play – role of players in doubles. Front/back formations or side to side.

Rules

Game starts with a diagonal serve- right hand side to

right hand side

Serve must land over the service line

Play to 21 points – but must win by 2 clear points.

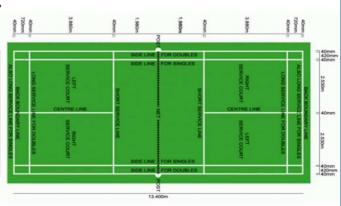
A point is won every rally

Whoever wins the point serves next

When score is even, serve from right, when score is odd, serve from left

Court is long and thin for singles, short and wide

Your cloudeshit the net with your racket or bo



Key words
Grip and ready
position
Drop shot
Rally Serve –
backhand/sho
rt, long, flick
Ready position
Overarm clear
Underarm
clear
Smash
Disguised shot
Underarm

clear

Scoring

Physical Education – Badminton questions

- 1. Name 4 pieces of Badminton equipment.
- 2. List the rules for serving. What's the difference between singles and doubles?
- 3. Name 3 components of fitness that would be useful for a badminton player.
- 4. List all the ways that you can win a point in Badminton.
- 5. Explain how to move an opponent around the court with shot selection.
- 6. Explain the difference in court dimensions between doubles and singles badminton.

Stretch and Challenge Task:

Watch some professional match play online. Score a game in lesson or by watching online.

Find out what happens when the wrong doubles player hits the serve. Who wins the point the server or returner?

Physical Education – Basketball

Key skills: Dribbling: Head up, spread fingers and fingertips, waist height.

Chest Pass: W grip, step, chest to chest, follow through, short distance. Bounce Pass: W grip, step, chest to chest, follow through, bounce before player, short distance. Javelin Pass: Sideways on, elevation, shoulder to shoulder, step, follow through, arch, long distance. Pivoting, footwork and jump stop: Landing on alternative feet- first foot to land is the static pivoting foot. Landing on simultaneous feet- either foot can become static pivoting foot/can be used at the end of a dribble or when receiving a pass. On the move- release ball before third step.

Set shot: Knees bent, dominant foot slightly in front

Set shot: Knees bent, dominant foot slightly in front of other, strong hand at bottom, supporting hand on side, and elbow at 90 degrees.

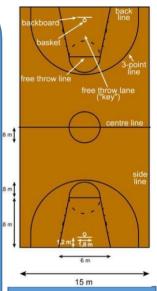
Lay-up Strong hand at bottom, supporting hand on side, keep it high, right hand dribble, step right, jump left aim for top right hand corner of box, left hand dribble, step left, jump right, aim for top left corner of box. Defending Man to man- knees bent, back straight, head up, arms out, watch opponent's belly-button. Attacking: Dribble into space, screen defenders, dribble out wide and quick inward passes, drive towards ball to receive pass losing defender, overload zone defence.

Triple Threat Position: Knees bent, hands positioned on ball so ready to shoot, head up, can dribble, pass or shoot from here.

Rules

Played with two teams of five Score by shooting through a hoop A side line ball is taken from the opposite team who touched it last Outside of the three point arc a basket is scores 3pts and inside scores 2pts

Once the offense has brought the ball across the mid-court line, they cannot go back across the line during possession
Personal fouls include hitting, pushing and holding
Fouling a shooter results in one, two or three free throws, worth
1pt each, depending on where and how they were fouled
Players cannot travel with the ball or double dribble
Players cannot hold the ball for longer than 5 seconds



Key Content:
Dribbling Passing
Man to man marking
Zone marking On the
move marking

Physical Education – Basketball questions

- 1. Describe what 'pivoting' is?
- 2. What rule is broken when lifting a foot when pivoting?
- 3. If an attacker is dribbling and then fouled by an opponent how does the game restart?
- 4. How many point do you get for a successful jump shot inside the key?
- 5. When would a 'javelin' or a 'shoulder' pass be most effective in a game?
- 6. How many seconds can an attacking player stay inside the 'key' for?
- 7. Describe a defenders stance and body position when defending in a 1v1 situation?
- 8. When an attacking player is fouled in the act of shooting how many 'free throws' do they receive?
- 9. During a 'free throw' when can a defender attempt a rebound?
- 10. When attempting a lay-up shot which corner of the backboard should the attacker aim for?

Stretch and Challenge Task:

Watch a video of a NBL game, identify key players and their positions and write what they did well and what they could improve on. Also identify the difference between man to man marking, zone marking and on the move marking and write down the difference between them and when in a game they would be used.

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Physical Education - Fitness

Key Skills:

Aerobic means "with oxygen and anaerobic means "without oxygen." **Aerobic Exercise:** This occurs when blood is carried through your vessels to deliver oxygen to the muscles to keep you moving, and you sustain the activity for more than just a few minutes.

Anaerobic Exercise: short, high intensity exercise. At the poir in time where the energy you are using does not allow the bo to create enough oxygen.

Training Methods:-

Interval -Athletes training with periods of work followed by periods of rest

Continuous -Training for a specific period of time with no rest **Fartlek** -A combination of slow and fast running over a variety of distances and terrains

Cross -A mixture of training

Circuit -A number of exercises, set out at 'stations' to avoid exercising the same muscle group consecutively

Weight -Using progressive resistance, either in the form of actual weight

lifted or in terms of the number of times the weight is lifted **Flexibility** – Either Ballistic; Static or PNF.

Plyometric – Involves jumping and immediately Jumping again. **Speed Training** – Could include Hollow Sprints; Acceleration and Interval Training



Key Content and Terms to learn: Endurance; Aerobic; strength; Flexibility; Agility; Balance; Coordination; Power; Reaction Time; Speed and Body Composition.

Physical Education – Fitness questions

- 1. Plan a suitable pulse raising activity and explain its benefits.
- 2. Name 3 lower and 3 upper body muscles
- 3. What is the difference between Aerobic and Anaerobic exercise and give an example of each.
- 4. Plan a circuit with 6 stations and include the working and the rest time.
- 5. How could we measure our heart rate? What units is it measured in and what is the heart

transporting to the working muscles?

6. What is the difference between dynamic and static stretching? Name 3 of each stretch.

Stretch and Challenge Task:

Devise a Training Programme for a Specific Sport

Physical Education – Football

Key skills:Controlling the ball – using different parts of the body – this could be the feet or thigh. Remember to cushion the ball.

Passing – there are 3 types of passes. Side foot pass, driven pass with the laces and a lofted pass. Using the side of the foot allows you to pass accurately over a short distance, a driven pass allows you to pass the ball on the floor, but a greater distance. Finally, a lofted pass allows you to lift the ball in the air over players and change direction. Remember to keep your standing foot next to the ball when you make the pass.

Dribbling – dribbling allows you to move the ball quickly around the pitch using the inside and outside of your feet and keeping the ball close to your feet and your head up.

Turning with the ball and outwitting a defender – turning with the ball allows you to change direction using different techniques, such as dragging the ball back with the sole of your boot. Outwitting and opponent allows you to beat a defender using different techniques such as a step over.

Shooting – there are different types of shots that allows you to score goals. You instep can be used to control and place the ball into the goal. If you use your laces then this allows more power to be produced.

Heading – you can use an attacker header, a defensive header or a controlled header, which might be passing the ball back to someone with your head.

Attacking – keeping possession – making a number of passes allows your team to keep possession and advance up the field. Using the width is very important when attacking. It is important teams keep possession and play one and two touch to move the ball quickly. Also, 'switch' the play using a lofted pass. **Defending** – players are normally marked man to man, but can be marked zonal from corners.

Tackling techniques – tackling, jockeying and forcing the player onto their weaker foot.

Strategies and Tactics:

Attacking – using the width is very important when attacking. It is important teams keep possession and play one and two touch to move the ball quickly. Also, another effective strategy is to 'switch' the play using a lofted pass.

To keep possession some teams may use the depth of the pitch to keep possession and build an attack.

Defending – players are normally marked man to man, but can be marked zonal from corners. It is also important that defenders keep a good line, which may allow them to play the opposition offside. This also means the defending team isn't too deep near their goal.



Key words Passing, dribbling, shooting, heading, attacking, defending, possession, width, depth, different formations, offside rule, 'switching' play

Physical Education – Football questions

- 1. Explain what a counter attack is.
- 2. Describe what 'man-to-man' marking involves.
- 3. What size football should be used at Under 14's (Y9) age category?
- 4. What does 'playing a high line' involve as a defensive unit?
- 5. Explain what a 'Cryuff' turn is and describe the body position when executing the turn.
- 6. Name 1 type of dribbling skill that can unbalance a defender allowing you to attack space and progress up the pitch.
- 7. When defending in a 1v1 situation why is it important for the defender to watch the ball at all times?
- 8. Describe a situation in a game where an 'overload' may take place when attacking up the field of play?
- 9. How should a defender position themselves when 'jockeying' in a 1v1 situation?
- 10. Explain what a 'high press' is when out of possession?

Stretch and Challenge Task:

- 1. Why is it important to move the ball quickly when keeping possession?
- 2. How can width be provided in different formations like 4-4-2, 4-3-3 or 53-2?
- 3. What is zonal marking?

Physical Education – Netball

Key skills:

Passing and receiving – different types of passes include chest pass, bounce pass, shoulder pass and overhead pass.

Attacking – getting free from an opponent in order to receive the ball. Includes the skills of sprinting, dodging and changing direction.

Shooting – With one hand under the ball and the other steadying it at the side, keep your eyes on the hoop, bend your knees and push the ball with the fingers.

Defending – Marking your opposite player both with and without the ball.

Footwork – You must land with a 1-2 landing or with 2 feet. You must then not move the landing foot. **Holding space** – trying to keep space in which to receive a pass. Especially useful in the circle.

POSITIONS

Goal Shooter (GS) – Can only play in their attacking goal third. Marks the GK.

Goal Attack (GA) – Plays in the goal third and centre third. Marks the GD.

Wing Attack (WA) – Plays in the centre third and their teams attacking third. Marks the WD.

Centre (C) Only player to be able to play in all 3 thirds. Marks C.

Wing Defence (WD) – Plays in centre third and their defending third. Marks the WA.

Goal Defence (GD) Plays in the centre third and their defending third.

Goal Keeper (GK) Can only lay in their defending goal third. Marks the GS

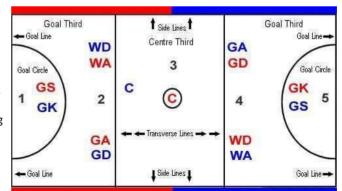
Rules

The game starts with a centre pass and the ball must be caught in the centre third. You must comply with the footwork rule e.g. a 1-2 landing.

You only have 3 seconds to release the ball. When defending you must be 1 metre away from the player.

There must be no contact with an opposing player. Only GS and GA may score a goal.

You must stay in the correct area of the court for your position Teams take it in turns to take a centre pass. The ball must be touched in each third of the



Key words
Passing and
receiving
Shooting
Attacking
Umpiring
Defending
Possession
Footwork
Holding space
Contact
Dodging

Physical Education – Netball questions

- 1. A centre player is offside when he or she enters which part of the court?
- 2. How many Teams compete in the Netball super league?
- 3. Why do Netball players have to wear bibs?
- 4. Which of the following is not a role of a centre player in Netball? To start the game

To change play from attack to defence To score a point

- 5. How long does a Netball game last?
- 6. Which of the following statements is not true about Netball players? Every player can score a goal

Each player is restricted with in some areas of the court

A player can not touch the opponent who is holding the ball

- 7. Explain the over a third rule
- 8. Explain two different rules in a Netball game

Stretch and challenge task

- 1. Watch an international or super league game of netball online.
- 2. What is the order you should pass the ball through starting from GK?
- 3. Do/should the defenders always stay with their opposite player? If not, why not? What do international players do?
- 4. Why might you get a penalty pass when playing netball? What is the difference when a penalty happens in the circle?

Physical Education – Trampolining

Kev skills:

Shapes – perform straight, tuck, straddle, pike in isolation









Straight bounce - legs together, point toes, make circle motion with arms, keep body in straight position, stay on the cross

Tuck - in the air tuck legs up to chest and arms come down to touch shins **Straddle** - split legs out to the side, point toes and attempt to touch toes Pike - lift legs out in front keep legs together, point toes and try to lean over to

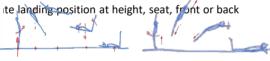
touch toes











Seat landing

Back drop

Front drop

Seat Drop - land on the cross, palms down by the side, legs out straight, point toes

Back Drop – back to land on cross, arms in round position across chest, legs slightly bent, toes pointed in air

Front Drop – land on stomach (belly button to land on cross) arms and palms flat making diamond shape on bed, lift head to look at the end bed, legs lifting slightly off the trampoline ensuring they are together and toes are pointed.

Key words

Shapes, landings, twist, twist rotation, advanced rotations

Trampoline safety

Setting up

Set mats and end beds out. Cover any holes between the beds with a mat. Ensure end beds are secure. Place mats on the floor around the trampoline. Have spotters around

Getting on and off a trampoline

Use a chair to assist getting on/off trampoline when necessary. If not using the chair use arm strength to push up and sit on the side of the trampoline. When getting off walk to the side of the trampoline, sit down slide feet to chair or floor.

General rules All jewellery/ piercings removed. Remove shoes. Socks or grip socks to be worn.

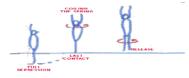
Never go underneath the trampoline. Stay on the cross when bouncing. Only one person allowed on the trampoline at a time. Use "kill the bed" to stop when you lose control. Only perform movements your teacher has taught

Competition rules

Land on two feet. Perform compulsory and voluntary routine. Routines must include 10 skills. Wear plain white socks. Can use 3 bounces before starting routine. Out bounce can be used if necessary at the end of routine. Cannot repeat single moves.

Twist

Perform 1/2 twist, full twist on trampoline with straight legs and arms (above head)



Half twist – stand on cross, perform half twist in the air. Start by facing one end bed and twist to face the opposite end bed. Arms out to the side to start, working towards placing them above head. Keep legs together an point toes

Full twist - stand on cross, perform full twist in the air. Start by facing one end bed and twist around to face the same end bed. Arms out to the side, working towards placing them above head. Keep legs together an point toes

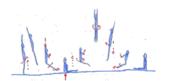
Twist/ Rotation

NITI XI

Half twist to seat drop



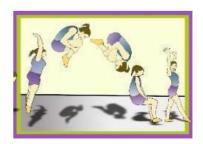
Seat drop half-twist out



Swivel hips

Advanced Rotation

Hands and knees turnover onto the mat including a bounce



Physical Education – Trampolining questions

- Name a variety of movements you can confidently perform on a trampoline
- Describe how to perform a twist in and out of a movement of your choice
- 3. Explain using coaching points how to perform a somersault
- 4. Create a 10 bounce routine and add a tariff
- 5. Tariff the following routine

Full Twist - Straddle - Seat drop - Front drop - To feet -

½ twist - Back drop - To feet - Tuck -

Tucked front somersault -

Stretch and challenge task

- a) Perform 5 bounce routine using at least 3 different key skills
- b) Attempt to twist in and out of movements from height
- c) Perform somersault with height in isolation
- d) Tariff movements
- e) Attend extra-curricular

Contents Autumn 1: Creation and Covenant:

- Genesis:
 equality and
 men and
 women
- When does life begin and end?

Autumn 2: Prophesy and Promise:

- God's plan for salvation
- The Magnificat
- Social justice and women in the Bible

Spring 1: From Galilee to Jerusalem:

- Mark's Gospel and the call of the disciples
- Vocation
- Roles within the Catholic clergy

Questions

<u>'</u>Creation and Covenant' Key Words

Genesis: The first book of the Bible that contains the Creation stories.

Imago Dei: the belief humans are made 'in the image of God.'
Sacred: holy or dedicated to God.

Dignity: being worth respect. **Marriage:** the sacrament where a man and a woman commit to being together forever.

Vow: solemn promises a couple make to one another during their marriage ceremony. **Conception:** when a man's

sperm fertilizes a woman's egg. **Abortion**: the deliberate termination of a pregnancy. **Euthanasia**: ending the life of a person with an incurable or

painful disease.

Genetic engineering: deliberate modification of the genetic material of an organism.

'Prophesy and Promise' Key Words

Salvation: saving from sin. **Typology**: interpretation of types and symbols in the Bible.

Incarnation: When God became flesh in the person of Jesus.

Marian: relating to Mary (Jesus' mother).

Magnificat: Mary's song of praise after receiving the promise of Jesus from Angel Gabriel.

Racism: treating someone less favourably because of their race. Dogma: truths revealed by God and taught by the Magisterium. Immaculate conception: the

belief that Mary was born free from sin.

Assumption: the belief that Mary's body and soul were taken up to heaven at the end of her life.

'From Galilee to Jerusalem' Key Words

Scholarship: academic study of the Bible.

 $\textbf{Mark:} \ \text{the author of Mark's Gospel}.$

The Four Evangelists: the four authors of the Gospels; Matthew, Mark, Luke and John.

Discipleship: following Jesus and learning more about him.

Vocation: a calling from God to a role or job.

Holy orders: the sacrament of ordination to the clergy.

Deacon: an ordained member of the clergy but not with the full role of a priest. May also refer to a trainee priest.

Priest: an ordained member of the clergy who leads a parish and administers the sacraments.

Bishop: a senior priest in charge of a diocese.

Ministry: a person's religious teaching.

Autumn 1: Creation & Covenant

- Genesis: equality and men and women

The Book of Genesis teaches that all human beings are made in God's image (Imago Dei) and therefore <u>all</u> human life is sacred and worthy of respect. As beings made in God's own image, humans themselves possess something of the attributes of their Creator, eg, free will, rational and the ability to love.

Men and women are equal too. The Hebrew word 'ezer' means a strong helper, not someone who is weak or less important. It's used to describe God and powerful help. When God made woman, He made her to be a strong and equal partner to man—not a servant. Man wasn't complete without her.

The authorial voices of Genesis 1 and 2

The Genesis 1 account comes from the Priestly (P) source:

In Genesis 1, God creates the world in 6 days and rests on the 7th. He creates 'ex nihilo' (out of nothing). The passage sounds formal - God commands something and it happens in a set order.

The Genesis 2 account comes from the Jahwist (J) source:

Genesis 2 focuses more specifically on the creation of humanity, with many theologians viewing it as a more detailed account of day 6, rather than a totally separate story. This passage sounds more informal – God sounds more personal and thoughtful in his creativity.

Catholic marriage is between a man and a woman and reflects God's purpose for men and women to be partners in the Creation story. Catholic marriage is:

- Holy: In the Catholic Church, marriage is a sacred sacrament that requires preparation and lifelong commitment. It is seen as a vow made before God and cannot be taken lightly or ended by civil divorce.
- Legal: The Church must be licensed to perform weddings, and the couple must be legally free to marry. They sign a Marriage Schedule, making it a legal contract, and divorce would involve legal processes.



Marriage is: Sacramental Procreative Exclusive Life-lona

Autumn 1: Creation & Covenant - When does life begin and end?

Catholics believe all human life is sacred and belongs to God – all are made Imago Dei. Only God has the right to give life, and to take it away. This belief is referred to as the 'Sanctity of Life.'

When does life begin?



Catholic teaching says that life begins at conception. Therefore, **abortion** is not permitted by Catholic teaching because:

- God knows of and has a plan for every life, even before it is born. "Before I formed you in the womb, I knew you." (Jeremiah)
- The Bible says "Do not kill" (10 Commandments).
 Abortion would be murder of the foetus.

The topic is controversial and *some* Christians may have a more liberal view, allowing abortion in certain serious situations.

Euthanasia (meaning 'easy death') is the painless killing of a person suffering from a painful, terminal disease, who has no quality of life. While some people view it as a kindness to end the suffering of someone who may not want to live anymore, many, see it as unacceptable and akin to murder.

Genetic engineering is when scientists change the DNA of a living thing—like a plant, animal, or even a human. It can:

- Make crops stronger so they resist bugs or grow in tough weather.
- Help cure diseases by fixing faulty genes in people.
- Create medicines, like insulin for people with diabetes.
- Grow organs for people who need transplants.

Benefits of GE

- Healthier lives: It can help treat or even prevent diseases.
- Better food: Crops can be more nutritious and last longer.
- Environmental help: Plants can be engineered to need less water or resist pests, reducing the need for chemicals.

Moral Concerns of GE

- Fairness: What if only rich people can afford gene editing?
- Safety: What if something goes wrong and causes harm?
- Changing humans: Editing genes in babies (called "germline editing") could affect future generations

The Catholic Church believes:

- Science is a gift from God, and using it to heal people is good.
- But we must respect human dignity and not treat people like experiments.
- It's okay to fix genes to cure diseases, but not to design "perfect" babies or change what it means to be human. Embryos must not be discarded in the process.
- Every person, no matter their genes, is created in God's image and has value.

<u>Autumn 2: Prophecy & Promise - God's plan for salvation</u>

GOD'S

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God's Big Rescue Plan

Genesis tells us how God made the first humans, Adam and Eve. He gave them a beautiful garden and asked them to trust and obey Him. But they chose to disobey, and that brought sin and death into the world. That's why the world is broken and people do wrong things. But God didn't give up on us. He had a plan to fix everything — a rescue plan!

Jesus is like a second Adam.

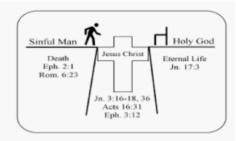
Just like Adam's choice brought sin into the world, Jesus came to make things right. He always obeyed God, even dying on the cross to take the punishment for human sins, and then He rose from the dead to give new life. Because of Jesus, we can be close to God again.

Mary is like a second Eve.

Eve said "no" to God's plan, but Mary said "yes." When the angel told her she would be the mother of Jesus, she trusted God completely. Her "yes" helped bring Jesus, the Savior. into the world.

In summary:

- · Adam and Eve brought sin and death.
- · Jesus and Mary brought hope and life.



Christians believe Jesus is the culmination of God's revelation to humanity... the final step of the rescue plan. In coming to earth himself, in the form of Jesus, God showed humans the way to salvation.

We call the belief that God came down to earth \underline{in} human form, born of Virgin Mary, the \underline{in} carnation.

In the Bible, Mary says,

"All generations will call me blessed" (Luke 1:48).

That means people in every time and place will honor her.

The **Catholic Church teaches** that this is true — and one way we show it is through **Marian feasts**. These are special days in the Church calendar when we remember and celebrate important moments in Mary's life, like:

The Annunciation (when the angel told her she would be Jesus' mother) **The Assumption** (when she was taken to heaven)

Our Lady of Lourdes, Fatima, and other titles that show how she helps people around the world

By celebrating these feasts, we're doing exactly what Mary said: **calling her blessed** and thanking God for choosing her to be the mother of Jesus.

<u>Autumn 2: Prophecy & Promise – The Magnificat</u>

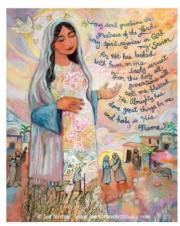
Mary has just found out from the angel Gabriel that she will be the mother of Jesus, the Son of God. After this amazing news, she goes to visit her cousin Elizabeth, who is also expecting a baby — John the Baptist.

When Mary arrives, Elizabeth is filled with the Holy Spirit and calls Mary "blessed among women" because she believed God's promise. Mary is so full of joy and praise that she bursts into a song, praising God for choosing her, a humble young

woman, to be part of His plan to save the world.

Why Is It Important?

- It shows Mary's deep faith and trust in God.
- It reminds us that God lifts up the lowly and cares for the poor and humble.
- It connects to the Old Testament, especially the songs of women like Hannah (1 Samuel 2), showing how Mary is part of God's long story of salvation.

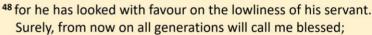


The Magnificat (Mary's Song of Praise) Luke 1:46-55

46 And Mary a said,

'My soul magnifies the Lord,

and my spirit rejoices in God my Saviour,



- ⁴⁹ for the Mighty One has done great things for me, and holy is his name.
- ⁵⁰ His mercy is for those who fear him from generation to generation.
- ⁵¹ He has shown strength with his arm; he has scattered the proud in the thoughts of their hearts.
- ⁵² He has brought down the powerful from their thrones, and lifted up the lowly;
- ⁵³ he has filled the hungry with good things, and sent the rich away empty.
- ⁵⁴ He has helped his servant Israel, in remembrance of his mercy,
- ⁵⁵ according to the promise he made to our ancestors, to Abraham and to his descendants for ever.'



Autumn 2: Prophecy & Promise – Social Justice and Women in the Bible

Mary's song sets the example for those who are humble being able to do great things for God.

Humble Christians throughout history have stood up for what is right in many situations of injustice, and they continue to do so today. For example:

Martin Luther King

- Baptist Christian pastor and leader in the fight for civil rights in the United States. He believed that all people should be treated equally, no matter the color of their skin.
- In the 1950s and 60s, Black people in America were often treated unfairly.
 They couldn't go to the same schools, eat at the same restaurants, or

even sit in the same places on buses as white people.

- MLK stood up against this racism using peaceful protests, marches, and powerful speeches. His most famous speech is "I Have a Dream," where he spoke about a future where everyone would be treated the same.
- Because of his courage and leadership, laws were changed to give Black people more rights. He showed the world that love and non-violence are stronger than hate.

Mary's Magnificat shows that she is part of a long line of **faithful**, **courageous women** who trusted God. Her song brings together the voices of these women and shows how **God's promises are being fulfilled** through her and through Jesus.

Two Old Testament women:

- Deborah (Judges 5) A prophetess and judge who led Israel to victory. She sang a victory song with Barak, praising God for delivering His people — just as Mary praises God for His saving power.
- Miriam (Exodus 15:20–21) Moses' sister, who led the women in song after God saved the Israelites from Egypt. Her song celebrates freedom and God's power, themes also found in Mary's Magnificat.



<u>Spring 1: From Galilee to Jerusalem – Mark's</u> <u>Gospel and the Call of the Disciples</u>

The Bible contains four Gospels written by the four evangelists; Matthew, Mark, Luke and John.

Mark, the author of the Gospel of Mark, was a follower of Jesus who probably wasn't one of the 12 main disciples, but he knew people who were—like Peter. Many believe he wrote down what Peter told him about Jesus' life, death, and resurrection. His Gospel is the shortest and most action-packed, written to help people quickly understand who Jesus was and what he did. Many scholars believe it to be the first Gospel that was written.

Jesus Calls the First Disciples (Mark 1:16-20)

¹⁶ As Jesus passed along the Sea of Galilee, he saw Simon and his brother Andrew casting a net into the lake—for they were fishermen. ¹⁷ And Jesus said to them, 'Follow me and I will make you fish for people.' ¹⁸ And immediately they left their nets and followed him. ¹⁹ As he went a little farther, he saw James son of Zebedee and his brother John, who were in their boat mending the nets. ²⁰ Immediately he called them; and they left their father Zebedee in the boat with the hired men, and followed him.



Jesus sends out the Twelve Disciples (Mark 6:7-13)

⁷ He called the twelve and began to send them out two by two, and gave them authority over the unclean spirits. ⁸ He ordered them to take nothing for their journey except a staff; no bread, no bag, no money in their belts; ⁹ but to wear sandals and not to put on two tunics. ¹⁰ He said to them, 'Wherever you enter a house, stay there until you leave the place. ¹¹ If any place will not welcome you and they refuse to hear you, as you leave, shake off the dust that is on your feet as a testimony against them.' ¹² So they went out and proclaimed that all should repent. ¹³ They cast out many demons, and anointed with oil many who were sick and cured them.

Spring 1: From Galilee to Jerusalem - Vocation and roles within the Catholic clergy

A vocation is described as a calling from God to a particular way of life, job or role. For some people their career could be their calling; to be a doctor, teacher. paramedic etc. Some people's vocation is to charity work or to family life. Some Catholics are called to ministry – to train as a priest and undertake the sacrament of Holy Orders. In Catholicism, only men may become priests. Regardless of job, all Christians believe they are called to follow Jesus and live their life according to his teachings.

'Jesus said, "Come, follow me."' (Matthew 4:19)

- •Deacon: A deacon helps the priest and serves the people. He can preach, baptize, and do weddings, but he can't say Mass or hear confessions.
- •Priest: A priest leads a parish (a church community). He celebrates Mass, hears confessions, gives Communion, baptizes, and helps people grow in their faith.
- •Bishop: A bishop is in charge of many churches in a big area called a diocese. He guides priests and deacons, teaches the faith, and can do special jobs like confirming people.

They all work together to help people follow Jesus.

The debate on women priests:

Some people believe women should be allowed to become priests because:

- •Men and women are equal in God's eyes.
- •Women can be great leaders and teachers in the Church.
- •Other Christian churches already have women priests.

Others, especially in the Catholic Church, believe only men should be priests because:

- •Jesus chose only men as his 12 apostles.
- •The Church has followed this tradition for 2,000 years.
- •The priest represents Jesus, who was a man.

The Catholic View:

The Catholic Church teaches that **only men can be priests**, and this is not just a rule—it's a part of Church tradition that they believe they don't have the authority to change. But women still play very important roles in the Church in many other ways.



RE – Knowledge Organiser – Questions

Autumn 1: Creation and Covenant Ouestions

- Define the term Imago Dei and explain what it means for human equality.
- Create a Venn diagram or table comparing the Priestly (P) and Jahwist (J) sources of Genesis.
- Write a short paragraph explaining why men and women are considered equal in the Genesis creation story.
- Design a poster that shows the Catholic view of marriage, including symbols and key words like "sacrament," "unitive," and "exclusive."
- Imagine you are a Catholic priest. Write a short speech explaining why marriage is a lifelong commitment.
- 6. When does the Catholic Church believe life begins, and why does this affect its view on abortion?
- 7. Define the term *euthanasia* and explain why the Catholic Church considers it morally wrong.
- List three benefits of genetic engineering mentioned.
- What are two moral concerns the Catholic Church has about genetic engineering? Would you agree with the Church or not? Explain as fully as you can.
- 'Tampering with human life is always wrong.'
 Either write an essay debating this statement,
 or design a full page poster showing arguments
 and religious teachings.

Autumn 2: Prophesy and Promise Questions

- Explain in your own words what "God's Big Rescue Plan" is.
- Compare Adam and Jesus. What do the texts say about how Jesus is like a second Adam?
- 3. Why is Mary's "yes" to God important in the rescue plan?
- Read 'The Magnificat.' Copy out 2–3 verses that show how Mary praises God for helping the poor and humble.
- 5. How does 'The Magnificat' show Mary's faith and trust in God and what her character is like?
- List two ways Mary's story connects to stories of women in the Old Testament.
- Why is Mary's song important for people fighting for justice today? Explain how her message inspires Christians like Martin Luther King.
- Design a poster showing Mary as a role model. Include key words like faithful, humble, obedient, and blessed, and draw or describe a symbol that represents her role in God's plan.
- Imagine you are Mary hearing the angel's message. Write a short diary entry describing your thoughts and feelings after saying "yes" to God.
- 10. In summary, what two things did Adam and Eve bring into the world, and what two things did Jesus and Mary bring?

Spring 1: From Galilee to Jerusalem Questions

- 1. Who was Mark, and what is special about his Gospel?
- 2. What did Jesus say to Simon and Andrew when he called them?
- 3. How did the disciples respond when Jesus called them?
- 4. List two instructions Jesus gave the disciples when he sent them out (Mark 6:7–13).
- 5. What were the disciples able to do when Jesus sent them out?
- 6. Do you think it was brave of the disciples to leave everything to follow Jesus? Why or why not?
- 7. Explain the roles of deacon, priest and bishop in your own words.
- 8. Do you agree or disagree with the Catholic Church's view on women priests? Explain your answer.
- 9. Write a short diary entry as one of the disciples being sent out by Jesus. How would you feel?
- Create a poster or mini fact file explaining the roles of a deacon, priest, and bishop.



Science – TERM 1 – Working Scientifically and RPAs

Independent variable: The variable that you change **Dependent variable**: The variable that is measured **Control variable**: A variable that should be kept the same

Prediction: What you think your results will show and why.

Risk assessment: Identify hazards, the harms they can do and how you will minimize any risks in a practical investigation.

Method: Step-by-step instructions for how to carry out a practical investigation.

Results table: As the practical is carried out, write the results in a table.

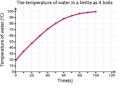
Anomalies: result that is much higher or lower than the general pattern

Calculating a mean

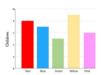
- 1. Check for anomalies circle them and ignore
- 2. Add up the remaining results for that value
- 3. Divide the total by the number of results

The most common ways of presenting data in science are:

 A line graph should be used when the independent and dependent variables are continuous.

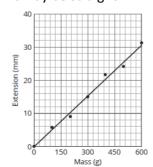


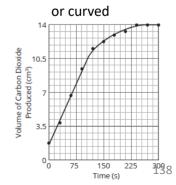
• A **bar chart** should be used if the independent variable is discontinuous.



Once points have been plotted for a line graph, draw a line of best fit:

- ✓ Does NOT have to go through 0,0
- ✓ The line should be drawn through as many points as possible,
- ✓ Equal numbers of points above and below the line.
- ✓ Anomalies should be ignored.
- ✓ It may be straight

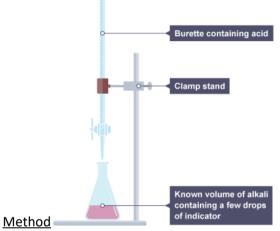




Neutralisation

Acid + alkali → salt + water

pH7 is neutral – this is the end point for a neutralisation With universal indicator this is green



- Measure 25cm³ of alkali using a volumetric pipette add to a conical flask
- Add a few drops of indicator, swirl, and place on a white tile under the burette
- 3) Fill the burette with acid upto 0cm³
- 4) Open tap on burette and gradually add acid into the conical flask, swirl
- 5) Slow down the adding of alkali when approaching the end point
- 6) Record the volume of acid added to reach pH7
- 7) Repeat twice, discard anomalies and calculate a mean

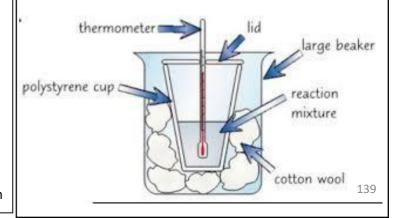
Measuring temperature change in reactions

Endothermic = temperature decreases, energy is transferred from the surroundings e.g. sodium hydrogen carbonate + citric acid, thermal decomposition, ammonium nitrate + water

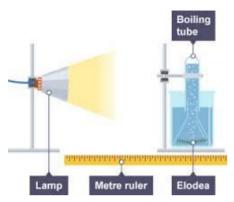
Exothemric = temperature increases, energy is transferred to the surroundings e.g. displacement, neutralisation, metal + acid, combustion

How to make the investigation more accurate?

- 1) Add a lid
- Use a polystyrene cup
- 3) Stir the reactants
- 4) Repeat it, discard anomalies, calculate a mean



Rate of Photosynthesis



Independent variable = the distance of light from the plant

Dependent variable = number of bubbles of oxygen per minute

Control variables = the length of pondweed, temperature, time left to acclimatise for

As you increase the distance of the light, the number of bubbles perminute decreases – because light energy is needed for photosynthesis.

How to make more valid? Use an LED instead of a filament bulb. Use sodium hydrogen carbonate solution instead of water.

How to make it more accurate? Measure volume of oxygen using a gas syringe

Ecology

1) Quadrat study = used to estimate

the total population. Or to compare the population in two different areas.

Quadrats are placed RANDOMLY, and repeated many times (more than 10!)

How to make more accurate?

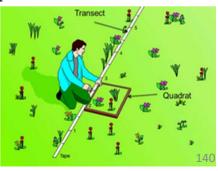
- a) Use a bigger quadrat
- b) Repeat more times

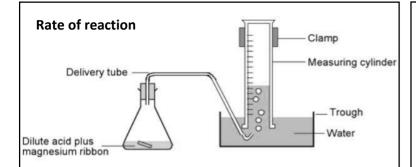
Estimated mean <u>total area</u>
population = number in x area of quadrat
quadrat

2) Transect study = used to see how population changes as the habitat

changes.

Quadrats are placed at REGULAR INTERVALS along a straight line.





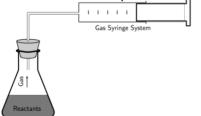
Independent variable = anything that affects rate of reaction... temperature, concentration, surface area, use of a catalyst.

Dependent variable = volume of gas produced every 30 seconds.

Control variables = the volume of solutions. Others will depend on the independent variable.

How to make it more accurate?

- a) Measure volume of gas using a gas syringe.
- b) Measure volume at more frequent intervals.



Density

Density = mass ÷ volume

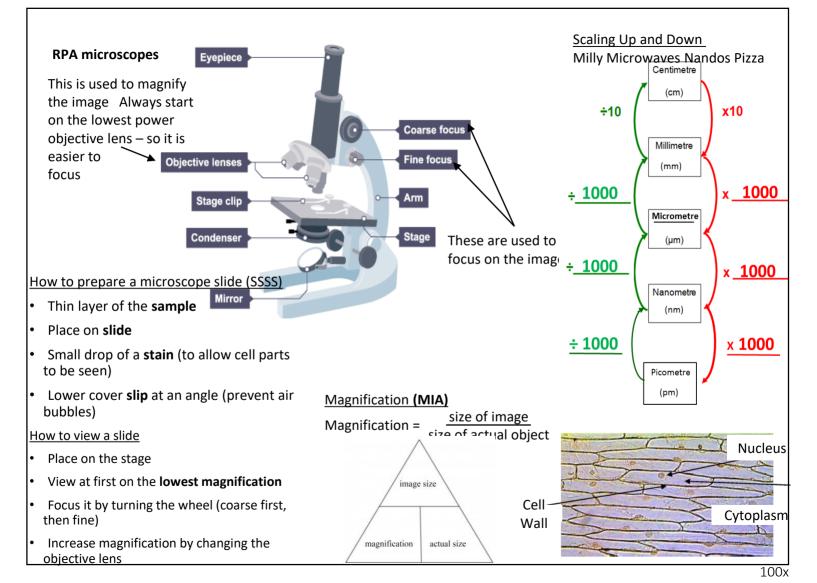
- 1) Calculating density of a regular shaped object
- Measure mass using scale
- Measure length, height and width of object using a ruler
- Multiply length x height x width to calculate volume
- Divide mass by volume

How to make more accurate? Use Vernier calipers in place of a ruler.

- 2. <u>Calculating density of an irregular shaped object</u>
- Measure mass using scale
- Fill a Eureka can with water, to the spout
- Place the object in the Eureka can measure the volume of the displaced water in a measuring cylinder
- Divide mass by volume can

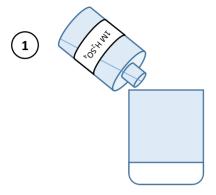
 Measuring cylinder

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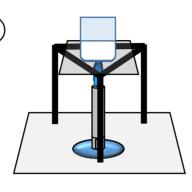


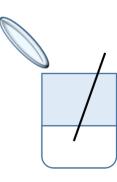
Making a soluble salt

These same steps can be used to make ANY pure, dry soluble salt. LEARN the steps – and just change the name of the acid or base!



(2)

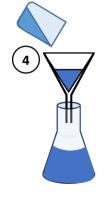




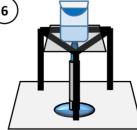
Measure 50ml of acid Which acid is needed?

Warm the acid gently

Add an excess of the base (an oxide or carbonate) and stir Which base is needed?









Filter the excess base

Pour into an evaporating basin

Heat the solution over a water bath

Leave to crystallise

Radiation

Keyword	Definition	Good surfaces	Poor surfaces
Absorb	Radiation taken into a substance.	Black, dull	Light, shiny
Emit	Radiation given off by a substance.	Black, dull	Light, shiny
Reflect	Radiation bouncing off a substance.	Light, shiny	Black, dull
Transmit	Radiation passing straight through a substance.	Transparent	Opaque

SILVER

WHITE

BLACK

DULL GREY

3)

5)

Results for emission

 $^{\circ}$

FEMPERATURE

COOLING CURVES

TIME (mins)

Method for investigating emission

- 1) Place test tubes in a rack
- 2) Measure 10cm³ of <u>hot</u> water into a measure cylinder (x4)
- 3) Pour into each colour boiling tube
- 5) Measure the starting temperature of each

Place a thermometer in each boiling tube.

- and record, start the timer.
- 6) Leave for 15 minutes.

4)

- 7) Measure the temperature of each and record.
- 8) Calculate the change in temperature for each.

Method for investigating absorption

- L) Place test tubes in a rack
- Measure 10cm³ of <u>cold</u> water into a measure cylinder (x4)
 - Pour into each colour boiling tube
 - Place a thermometer in each boiling tube.
 - Measure the starting temperature of each and record, start the timer.
- 6) Shine a light on them, and leave for 15 minutes.
- 7) Measure the temperature of each and record.
- 8) Calculate the change in temperature for each.

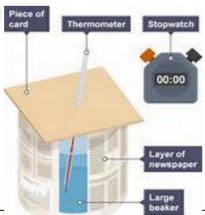
Thermal insulation

- Any hot substance will cool down to room temperature
- Insulation will prevent thermal energy transfer to the environment – so the hot substance will cool more slowly
- A material with low thermal conductivity = a GOOD insulator = temperature will reduce LESS

Independent variable = type / thickness of insulation Dependent variable = temperature change after 10 minutes Control variable = starting temperature of water, volume of water, use of a lid

Method

- Measure 50cm³ of hot water
- · Add to the beaker
- Measure starting temperature of water, add lid
- · Start timer
- After 10 minutes, measure the temperature of the water
- Repeat, adding one layer of insulation to the outside of the beaker



Soluble salt

- 1. What must you do to the acid?
- 2. How much base do you add?
- 3. Why do we filter the mixture?
- 4. Which pieces of apparatus is used to heat the mixture?
- 5. How do we remove the water from the mixture?
- 6. To prepare each of the following salts identify which acid must be used:
 - a) Calcium chloride
 - b) Calcium sulphate
 - c) Calcium nitrate
- 7. To prepare each of the following salts, identify which base(s) could be used:
 - a) Iron nitrate
 - b) Sodium nitrate
 - c) Potassium nitrate



Y9 Cell biology (GCSE B1)

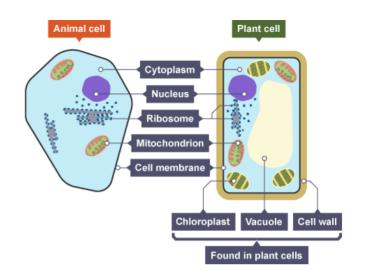
All living organisms are made up of cells. Organisms can be made up of one cell (unicellular) or made up of many cells (multicellular).

Cell part	Function
Nucleus	Contains genetic material. Controls cell activities.
Cell membrane	Controls the movement of substances in and out of the cell.
Mitochondria	Aerobic respiration, releases energy
Ribosome	Protein synthesis
Cytoplasm	Chemical reactions
Cell wall	Supports the structure of the cell
Vacuole	Supports the cell wall, contains cell sap
Chloroplast	Photosynthesis

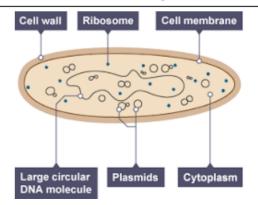
Animal, plant and yeast cells are **eukaryotic** – this means they contain a nucleus

Prokaryotic cells e.g. bacteria

- · Contain no nucleus or mitochondria
- May contain plasmids (circular rings of DNA)
- · Are much smaller and simpler



Electron microscopes have a **higher resolution** and **magnification** than light microscopes, and so more cell parts can be seen (as in these diagrams)

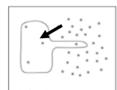


Cell transport

All cells need to absorb nutrients and excrete waste. Cells gain and lose substances in three ways:

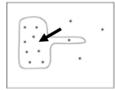
1) Diffusion

- Movement of substances from a higher concentration to lower concentration
- e.g. red blood cells absorbing oxygen, leaves absorbing carbon dioxide during the day



2) Active transport

- Movement of substances from a lower concentration to higher concentration.
- Requires energy, from respiration.
- Cells will contain more mitochondria
- e.g. root hair cells absorbing nitrate ions from soil



3) Osmosis

- The movement of water molecules, from a dilute solution to a concentrated solution
- Across a partially permeable membrane
- E.g. root hair cells and cells of the large intestine absorbing water



Cells that absorb substances often have a large surface area

Cell division

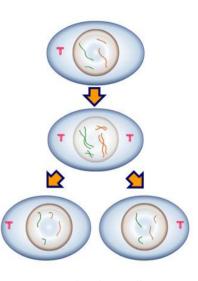
New body cells are needed:

- When tissues are damaged and need to be repaired
- During growth

New body cells are made during the cell cycle

Stages of the cell cycle

- 1) Cell grows in size, organelles are copied, and chromosomes are copied
- 2) Chromosomes line up in the centre of the cell and are pulled apart the nucleus divides (mitosis)
- 3) The cytoplasm and membrane divides, forming two daughter cells



Cancer

Cancer occurs when changes in DNA lead to cell division happening uncontrollably

Benign tumours = do not spread **Malignant tumours** = are cancers – they can spread,
when cells break off the tumour and travel through the
blood to form secondary cancers

RPA 2 osmosis

Independent variable = concentration of solution Dependent variable = change in mass Control variables = temperature, time left in solution, volume of solution

Percentage change = <u>change in mass</u> x 100 starting mass

Percentage change calculated as not all the potatoes will have the same starting mass, gives a fair comparison

GAINING MASS cells absorb water because solution is more dilute than the cells

Concentration of solution in cells is

where the line crosses x axis % salt solution

LOSING MASS

cells lose water because solution is more concentrated than cells

Stem cells

Cells that are unspecialised, and can differentiate into other types of cells. They can be used to treat:

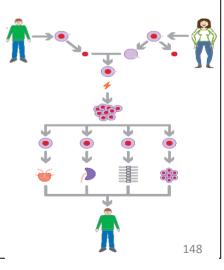
- Type 1 diabetes
- Leukaemia, and other types of cancer
- Burns

Embryonic stems cells – found in embryos, are completely unspecialised, so can be turned into more types of cells Adult stem cells – found in bone marrow and skin; are partially specialised, so cannot be turned into as many types of cells

Donor stem cells may be rejected, and carry viruses.

Therapeutic stem cell cloning -

- Remove the nucleus from a patient's skin cell
- Insert it into an empty donor egg cell, and stimulate cell division
- embryonic stem cell line that contain the patient's DNA.
- Will not be rejected.





Y9 Chemical analysis (GCSE C8)

Keyword	Meaning
Pure substance	Contains only one type of substance May be an element or a compound
Anything off periodic table	,
Mixture / impure substance	Contains more than one type of substance
Salt water, crude oil, air	
Formulation Alloys, medicine, paints, fuels	A mixture, designed for a specific purpose, made of specific materials in specific quantities
Chromatography	Separating technique that separates soluble substances in a mixture

Test for purity

- · Heat the substance
- A pure substance will melt or boil at one specific temperature
- An impure substance (mixture) will melt or boil over a range of temperatures

Gas	Method for testing	Positive result
Oxygen	Glowing splint	Relights
Hydrogen	Burning splint	Squeaky pop
Chlorine	Damp litmus paper	Bleaches
Carbon dioxide	Limewater	Goes cloudy

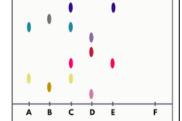
Chromatography

- Draw a pencil line on filter paper
- · Put spots of your dyes on pencil line
- Suspend in solvent level below the pencil line
- Wait for solvent to travel up the paper
- Remove, draw a second pencil line where solvent reached

Rf value = distance of substance ÷ distance of solvent

Rf is <u>ALWAYS</u> less than 1

Stationary phase = the paper Mobile phase = the solvent



Interpreting results

One spot = pure substance

More than one spot = mixture Spot has not moved from pencil line = insoluble Spot at the top = most soluble pigment Spots at same height = same pigment

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Y9 Atmosphere (GCSE C9)

Gas	Percentage
Oxygen	21%
Nitrogen	78%
Carbon dioxide	0.03%
Others e.g. argon, water vapour	Less than 1%

Greenhouse effect

- Sun emits short-wave length radiation
- Absorbed by Earth, and re-emitted as long-wave radiation
- Absorbed and re-emitted by greenhouse gases
- Little radiation energy escapes to space

Effects of global warming

More extreme weather; more droughts & floods; ice caps melt & sea levels rise; changes to migratory patterns

Carbon footprint = the total amount of greenhouse gases emitted during the lifetime of a product, service or event

Reduce carbon footprint by burning less fuel, using less energy, recycling and re-using materials

Atmospheric pollutants

Pollutant	Source	Problem caused	
Nitrogen oxides	Burning fuels at high temperatures in engines. Nitrogen and oxygen from the air react.	Acid rain Respiratory problems	
Sulfur dioxide	Burning fossils fuels with impurities		
Carbon monoxide			
Carbon particulates			
Methane Landfill, cattle farming and rice farming		Global warming	
Carbon dioxide	Deforestation and burning fossil fuels		

Evolution of the atmosphere

- The early atmosphere was mostly carbon dioxide and water vapour (from volcanoes)
- Water vapour cooled and condensed to form oceans.
- Carbon dioxide gas dissolved into the oceans and formed sedimentary rocks
- Green plants and algae evolved and absorb carbon dioxide for photosynthesis.
- Plants released oxygen

Animals and other complex life began to evolve.



Y9 Particle model of matter (GCSE P3)

Particle theory All matter is made up of particles. Particles are found in three main states of matter (depending on how much internal energy they have).

Internal energy

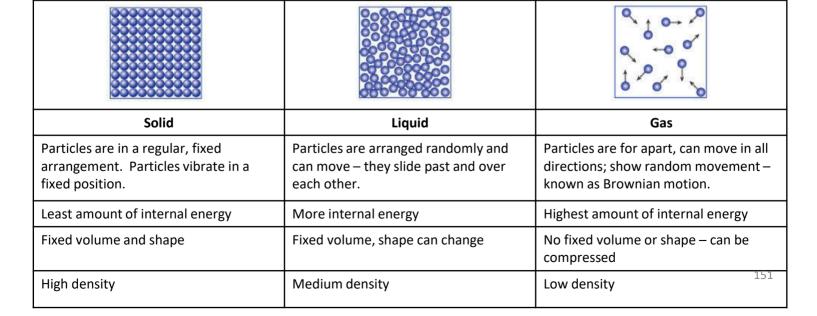
- The total kinetic energy and potential energy of all the particles that make up a system
- Heating changes the internal energy this either raises the temperature or changes the state

Changes of state are physical changes (not chemical changes) because the material recovers the original properties if the changes are reversed.

Mass is conserved during changes of state.

Melting – from solid to liquid Evaporation – from liquid to gas Sublimation – from solid to gas Require heating – increase in internal energy

Freezing – from liquid to solid Condensation – from gas to liquid Require cooling – decrease in internal energy



RPA Density

Density = mass ÷ volume

Units: either kg/m³ or g/cm³

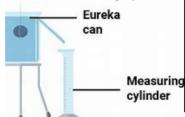
1) Calculating density of a regular shaped object

- Measure mass using scale
- Measure length, height and width of object using a ruler
- Multiply length x height x width to calculate volume
- Divide mass by volume

How to make more accurate? Use Vernier calipers in place of a ruler.

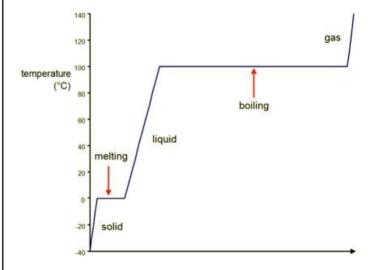
2. Calculating density of an irregular shaped object

- Measure mass using scale
- Fill a Eureka can with water, to the spout
- Place the object in the Eureka can measure the volume of the displaced water in a measuring cylinder
- Divide mass by volume



Latent heat The energy needed for a substance to change state is called latent heat.

When a change of state occurs, the energy supplied changes the energy stored (internal energy) but not the temperature.



The flat parts of the graph are when the material is changing state, and the temperature is not changing. The temperature on the y axis at that flat point is the melting or boiling point.

The graph above is for pure water – the melting point is at 0°C and the boiling point is at 100°C.

Specific latent heat

= the amount of energy required to change the state of one kilogram of the substance with no change in temperature.

Units = J/kg

Specific latent heat of **fusion** – change of state from solid to liquid

Specific latent heat of **vaporisation** – change of state from liquid to vapour

Formula (given in exam):

Energy = mass x specific latent heat

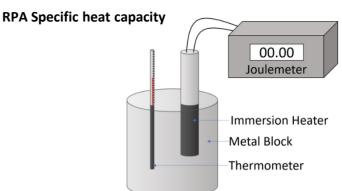
Specific heat capacity

= the amount of energy required to heat 1kg of a substance by 1°C

Units = J/kg°C

Formula (given in exam):

Energy = mass x specific heat capacity x temperature change



- Measure mass of the material
- 2) Place one drop of water in the thermometer hole
- 3) Measure the starting temperature of the material
- 4) Turn on power supply, heat for 10 minutes
- 5) Measure the end temperature
- 6) Measure the energy transferred using the Joule meter
- 7) Calculate the specific heat capacity by using this formula:

Specific heat capacity = <u>energy transferred</u> mass x temperature change

Higher tier:

If you do not have a Joulemeter, you can use an ammeter and voltmeter and the following equations to get energy:

Power = current x potential difference

Energy transfer = power x time

<u>Skills</u>

- 1. What is meant by the dependent variable?
- 2. What is meant by the independent variable?
- 3. Which type of variable is kept the same?
- 4. What do we call results that are much higher or lower than expected?
- 5. How do you calculate a mean?
- 6. Which type of results do we plot in a line graph?
- 7. Which type of results do we plot in a bar chart?
- 8. Do lines of best fit on a graph always have to be straight?

Microscopes

- 1. Which part of a microscope is needed for magnification?
- 2. Which part of a microscope is used to focus the image?
- 3. Which objective lens do you start with?
- 4. What are the steps to prepare a slide?
- 5. What are the steps to view a slide?
- 6. How do you calculate magnification?
- 7. How do you convert millimetres to micrometers?

Photosynthesis

- 1. What is independent variable in this practical?
- 2. What are some control variables?
- 3. What pattern of results would you expect?
- 4. How would you make this more valid?
- 5. How would you make this practical more accurate?

Ecology

- 1. What is a quadrat?
- 2. How do you make this study more accurate?
- 3. What is a transect?

Neutralisation

- What are the two products of a neutralisation reaction?
- 2. What pH is neutral?
- 3. What piece of equipment is used to measure the volume of acid?
- 4. What name is given to the piece of glassware with a tap at the end of it, used to measure the volume of alkali needed for neutralisation?
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Density

- 1. What is the formula for density?
- 2. What is a Vernier caliper used for?
- 3. How do you measure the density of a regular object?
- 4. What is a Eureka can?
- 5. What is it used for?

Thermal insulation

- 1. What will happen the temperature of hot water over time?
- 2. What impact will an insulator have on this?
- 3. What is the dependent variable in this practical?
- 4. What are some control variables in this practical?
- 5. Why is a lid used?

Radiation

- 1. What does emit mean?
- 2. What does absorb mean?
- 3. Which colours are good emitters of radiation?
- 4. What sort of water must be used to measure how well a substance emits radiation?

- 5. Which colours are good absorbers of radiation?
- 6. What sort of water must be used to measure how well a substance absorbs radiation?
- 7. What is a control variable in EACH of these practicals?

Temperature change in reactions

- 1. What does endothermic mean?
- 2. What does exothermic mean?
- 3. Give an example of an endothermic reaction
- 4. Give an example of an exothermic reaction
- 5. How do you increase the accuracy of any practical about temperature change in reactions?

Pressure in gases

The molecules of a gas are in constant random motion.

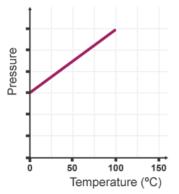
The temperature of the gas is related to the average kinetic energy of the molecules.

Pressure in a gas is caused by particles bumping into the sides of the container (at right angles).

You can increase the pressure by:

- · Increasing the temperature
- Decreasing the volume of the container

Increasing the temperature of a gas, held at constant volume, increases the pressure exerted by the gas.



Recall questions B1 cell biology

- 1. Which part of a cell contains genetic material?
- 2. What is the role of the mitochondria?
- 3. Give three parts that are present in a plant cell, but NOT in an animal cell?
- 4. What is a prokaryotic cell?
- 5. How do you prepare a microscope slide?
- 6. How do you focus a microscope?
- 7. How do you calculate the actual size of a cell?
- 8. What is active transport?
- 9. What are the stages of the cell cycle?
- 10. What is osmosis?
- 11. What is a stem cell?
- 12. What can stem cells be used to treat?
- 13. What is a risk of stem cell transplant?
- 14. What is a meristem?
- 15. Give an example of a substance that is absorbed by active transport

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C8 chemical analysis

- 1. What is the definition of a pure substance?
- 2. What is a mixture?
- 3. Give two examples of mixtures
- 4. What is a formulation?
- 5. Give an example of formulation?
- 6. What is the formula for calculating Rf value?
- 7. What are the 2 phases of chromatography?
- 8. How do you identify a pure substance using chromatography?
- 9. Why do we use a pencil line in chromatography (rather than pen)?
- 10. What would it mean if a dot did not move from the pencil line in chromatography?
- 11. What is the test used to identify oxygen?
- 12. What is the test used to identify hydrogen?
- 13. How do you identify a pure substance using a chemical test?
- 14. What is limewater used to identify?

C9 atmosphere

- What gases are present in the current atmosphere (and what percentage do they each make up)?
- 2. How did the early atmosphere form?
- 3. How did oceans form?
- 4. Why did the concentration of carbon dioxide decrease?
- 5. How did the concentration of oxygen increase?
- 6. What is meant by the greenhouse effect?
- 7. Give two human activities that release CO₂
- 8. Give two human activities that release methane
- 9. Describe three consequences of global warming
- 10. Give three ways we can reduce our carbon footprint
- 11. Which pollutants are produced by incomplete combustion?
- 12. Why is carbon monoxide known as the silent killer?
- 13. What problem does sulfur dioxide cause?
- 14. What problem does nitrogen oxide cause?
- 15. How is nitrogen oxide formed?

P3 particle model

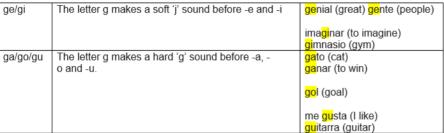
- 1. What is the formula for calculating density?
- 2. How do you calculate the density of a regular shaped object?
- 3. How do you calculate the density of an irregular object?
- 4. What is freezing?
- 5. What is condensing?
- 6. What change of state is from solid to liquid?
- 7. What change of state is from solid to gas?
- 8. What is meant by 'melting point'?
- 9. What happens to temperature during a change of state?
- 10. What is internal energy?
- 11. What causes pressure in gases?
- 12. How can you increase the pressure in a gas?
- 13. What units are used for specific latent heat?
- 14. What is the meaning of specific heat capacity?
- 15. What units are used for specific heat capacity?

Phonics

Spanish is a **phonetic language**. This means that apart from some exceptions, letters in Spanish are always pronounced in the same way, and unlike English, you mostly pronounce all the letters in a word.

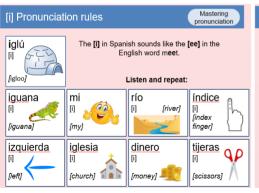
j	sound in back of throat	o <mark>j</mark> o (eye) <mark>j</mark> ardín (garden)				
		cone <mark>j</mark> o (rabbit)		760		
rr	a 'rolled' sound	pe <mark>rr</mark> o (dog) ma <mark>rr</mark> ón (brown)	[a] Pronuncia	tion rules		Mastering pronunciation
Z	a 'th' sound	zona (zone/area) pe <mark>z</mark> (fish) zapato (shoe)	casa	1	panish sounds like English word apple	
qu	is pronounced as a 'k' sound	quince (15) ¿Qué tal? (How are you?) Quiero (I want)	[house]	The sour	nd towards the front ad should be short a Listen and repeat:	and crisp.
V	v is pronounced more like a 'b' sound	ver (to see) veinte (20) verde (green)	cama [a]	gata [a]	saltar [a]	amar [a] [to love]
II	is pronounced like an English 'y'	me <mark>ll</mark> amo (I am called) caba <mark>ll</mark> o (horse) amari <mark>ll</mark> o (yellow)	cantar [a]	[cat] campana [a]	[to jump] manzana	alas
ñ	ñ is pronounced like the 'ny' in the English word 'ca <i>ny</i> on'	espa <mark>ñ</mark> ol (Spanish) cumplea <mark>ñ</mark> os (birthday) Espa <mark>ñ</mark> a (Spain)	[to sing]	[bell]	[apple]	[wings]
ce/ci	c (when followed by e or i) is a 'th' sound.	cerca (near) once (11)				
		ciclismo (cycling) cinco (five)	[e] Pronuncia		oanish sounds like t d wet.	Mastering pronunciation
ca/co/cu	the letter c makes a hard 'k' sound before -a, -	casa (house) cucaracha (cockroach)	[[V]	L	isten and repeat:	
	o una -u.	comer (to eat) chocolate (chocolate)	él [e]	té [e] [tea]	bebé [e] [baby]	pelo [e] [hair]
		cuerpo (body)	pez [e]	elefante [e]	erizo [e]	dedo [e]
ge/gi	The letter g makes a soft 'j' sound before -e and -i	genial (great) gente (people)	[goldfish]	[elephant]	[hedgehog]	[finger]
		ima <mark>gi</mark> nar (to imagine) gimnasio (gym)				

Phonics continued



а	a is pronounced like 'ah'	alto (tall)
е	e is pronounced like 'eh'	elefante (elephant)
İ	i is pronounced like 'ee'	<mark>i</mark> dea
0	o is pronounced like 'oh'	s <mark>o</mark> fá(sofa)
u	u is pronounced like 'uuh'	universo (universe)

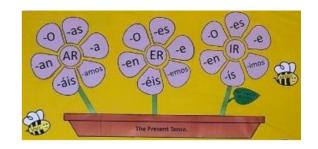






The Basics – Verbs and Subject Pronouns

abandonar	(to) abandon, leave (a place)
abrazar	(to) hug
amenazar	(to) threaten
apoyar	(to) support
atraer	(to) attract
besar	(to) kiss
celebrar	(to) celebrate
comprender	(to) understand
comunicar	(to) communicate
confiar	(to) trust, confide
conocer	(to) know (person, place), meet (for the first time)
criticar	(to) criticise
cuidar	(to) take care of
discutir	(to) argue, discuss
engañar	(to) trick, deceive
gritar	(to) shout
llorar	(to) cry
morir	(to) die
nacer	(to) be born
pasar	(to) pass, spend (time), happen
pegar	(to) hit, stick (on)
perdonar	(to) forgive, excuse
proteger	(to) protect
regalar	(to) give (as a gift)
respetar	(to) respect
romper	(to) break
trabajar	(to) work



Key information

Subject pronouns tell us who is doing the action.

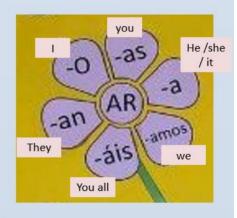
There are only 3 subject pronouns:

- |
- You
- · He / she / it

These 3 have a plural form:

- I we
- You you all (plural)
- He / she / it they

Singular (1)		Plural (2+)
1 st	T	We
2 nd	You	You all
3rd	He / she / it	They



Most important: The Spanish do not tend to use the Subject pronoun; they take off the last 2 letters of the infinitive and use new endings instead. This shows **WHO** is doing the action.

1 Nouns

Masculine and feminine nouns

All Spanish nouns are either masculine or feminine.

 In the singular, masculine nouns are introduced with el or un:

el padre the father un libro a book

- Feminine singular nouns are introduced with la or una:
 la madre the mother
 una mesa a table
- Some nouns have two different forms, masculine and feminine:

un amigo a male friend una amiga a female friend un profesor a male teacher una profesora a female teacher

- Some nouns which relate to jobs such as el jefe (the boss) usually stay the same in the feminine form, i.e. la jefe. However, the use of feminised forms of the noun, in this instance la jefa, have become increasingly widespread.
- Infinitives can be used as nouns: Leer es mi pasatiempo favorito. Reading is my favourite hobby.
- The process of turning a verb or adjective into a noun is called nominalisation. Masculine adjectives are used for languages: francés → (el) francés (French)
- Adjectives of nationality follow the same pattern.
 The adjective must match the gender of the noun.
 la inglesa the English person (female)
 los españoles Spanish people
- Adding -ito or -ita to a noun changes the meaning of the noun to be 'little'.

librito a little book

Singular and plural forms

As in English, Spanish nouns can either be singular (one) or plural (more than one).

- Nouns ending in a vowel add –s for the plural.
 un año → dos años
 one year → two years
- Nouns ending in a consonant add –es for the plural.
 un país → dos países
 one country → two countries
- For nouns ending in -z, change the z to c and add -es: una luz → dos luces one light → two lights
- If a noun ends in −ión, drop the accent and add −es: una situación → dos situaciones one situation → two situations

The Definite Article (the)

The word for 'the' depends on whether the noun it goes with is masculine, feminine, singular or plural.

	masculine	feminine	masculine	feminine
	singular	singular	plural	plural
The	el	la	los	las

The Indefinite Article (a / an OR some)

The word for 'a / an' and 'some' also depends on whether the noun it goes with is masculine or feminine, singular or plural.

	masculine	feminine	masculine	feminine
	singular	singular	plural	plural
a / an some	un	una	unos	unas

	T
Spanish	English
la familia	family
el hermano	brother
la hermana	sister
la hija	daughter, female child
el padre	father
la madre	mother
el abuelo	grandfather
la abuela	grandmother
la niña	young girl, child
el tío	uncle
la tía	aunt
el perro	dog
el animal	animal
el bebé	baby
el hijo	son, male child
el hombre	man
el niño	little boy, male child
el padrastro	stepfather
la madrastra	stepmother
el primo	cousin
el gato	cat
el toro	bull
el pájaro	bird
el caballo	horse
el vecino	neighbour (m)
el chico	boy
la chica	girl

¡Hola! Hello!	¿Cómo te llamas? ¿Cuál es tu nombre? What are you called?	Me llamo Emma. I am called Emma.	¿Y tú? And you?	Me llamo Alí. I am called Alí.
¿Cuál es tu apellido? What is your surname?		Mi apellido es Smith My surname is Smith	¿Cómo se escribe tu apellido? How do you spell your surname?	Se escribe S M I T H It is spelled S M I T H

¿Qué tal? How are you?	
Fenomenal. <i>Great.</i> Bien. <i>Fine.</i> Regular. <i>Not bad.</i> Fatal. <i>Awful.</i>	¿Y tú? And you?

¿Cuánto	os años tienes? How old are you?	
Tengo <i>I have</i>	Once / doce / trece / catorce / quince 11 / 12 / 13 / 14 / 15	años <i>year</i> s

¿Dónde vives? Where do you live?	¿Cuál es tu dirección? What is your address?
Vivo en Brasil. I live in Brazil.	Mi dirección es Calle Andrea Doria, 11, 2B.
Vivo en Chile. I live in Chile.	My address is 11 Andrea Doria Street, on the second floor, apartment
Vivo en Londres. I live in London.	B.
Vivo en Mallorca. I live in Majorca.	Б.

Diría que	Siempre	Soy	aburrido/a – boring	pero – but	siempre	soy	aburrido/a – boring
I would say that	always	l am	alegre – happy	sin embargo	always	I am	alegre – happy
Mis amigos dirían que	a veces		antipático/a – unfriendly	however	a veces		antipático/a –
My friends would say that	sometimes		divertido – fun	por otra parte	sometimes		unfriendly
Mis padres dirían que	nunca never		generoso – generous	on the other hand	nunca		divertido – fun
My parents would say that	casi nunca		listo/a – smart		never		generoso – generous
Creo que – I think that	rarely		perezoso/a – lazy		casi nunca		listo/a – smart
En mi opinión	a menudo		raro/a - weird		rarely		perezoso/a – lazy
In my opinion	often		simpático/a – nice		a menudo		raro/a - weird
			sincero/a – honest		often		simpático/a – nice
			tímido/a – shy				sincero/a – honest
			tonto/a – silly				tímido/a – shy
			torpe - clumsy				tonto/a - silly
							torpe - clumsy

¿Cuántas personas hay en tu familia?	En mi familia hay personas.
How many people are there in your family?	In my family, there are people.

Hay	There is
un bisabuelo	a great grandfather
un abuelo	a grandfather
un padre	a father
un padrastro	a step-father
un tío	an uncle
un hermano	a brother
un hijo	a son
un primo	a boy cousin
una bisabuela	a great grandmother
una abuela	a grandmother
una madre	a mother
una madrastra	a step-mother
una suegra	a mother-in-law
una tía	an aunt
una hermana	a sister
una hija	a daughter
una prima	a girl cousin

los pronombres posesivos Possessive pronouns		
Mi / Mis Tu / tus Su / sus Nuestro / a / os / as Vuestro / a / os / as	my your his / her / their our your (plural)	

Singular and Plural	
Mi padre	my father
Mis padres	my parents
Nuestro abuelo	our granddad
Nuestra abuela	our grandma
Nuestros abuelos	our
	grandparents

Verbos Claves – Key Verbs		
Hay	There is / are	
Tengo Tiene Tienen	I have He / she has They have	
Se Ilama Se Ilaman	is called are called	
Es Son	is are	

Mi padre / madre hermana / hermano madrastra / padrastro amigo / amiga abuelo / abuela tío / tía / primo / prima	se llama 	Es (muy) y (bastante) alegre. divertido/a. feliz. nervioso/a. fuerte. gracioso/a. perezoso/a.	independiente. simpático/a. práctico/a. activo/a. serio/a. artístico/a. tranquilo/a. trabajador/a.
prima		, ·	

Me llevo bien con			mi/s)	madra(s)
			mi(s)	madre(s).
Salgo con				padre(s).
Discuto con				madrastra.
Me peleo con				padrastro.
Cuido a				abuelo(s).
Respeto a	Respeto a			abuela(s).
Voy	al cine	con		tío(s).
	al estadio			tía(s).
	al fútbol			hermano(s).
	al restaurante			hermana(s).
	de vacaciones			primo(s).
Hago	deporte			prima(s).
	ejercicio			amigo(s).
	actividades			amiga(s).

Key verb	Family Member	Connective	Time Phrase	Reason
Me llevo bien con	mis padres - my parents	porque	siempre – always	me ayuda(n)
l get along well with		because		helps me
	mi mamá / papá - my mum/dad		a veces - sometimes	
Me llevo superbien con	l <i></i> .	ya que		me hace(n) reír
I get along super well with	mi abuelo / abuela my grandad / grandma	since	nunca – never	makes me laugh
Me llevo mal con I get along badly with	mi hermano / a my <i>brother / sister</i>	dado que given that	casí nunca - rarely	me critica(n) criticises me
Me peleo con I fight with	mi primo / a - my cousin			me molesta(n) annoys me
Me divierto con I have fun with	mi madrastra / padrastro my stepmum / stepdad			me da(n) lo que quiera gives me whatever l
	mi familia acogida my foster family			want

	i	1. 1
Es	un hombre	alto/a.
	una mujer	bajo/a.
	un chico	delgado/a.
	una chica	gordo/a.
	un gato	feo/a.
		guapo/a.
		pequeño/a.
Tiene	el pelo	corto / largo.
		blanco / negro.
		moreno / rubio.
		rojo / gris.
	gafas.	

Creo que Lorena /	es una chica	alegre.	perezosa.	práctica.
Lucía		divertida.	lista.	activa.
		feliz.	responsable.	seria.
		nerviosa.	trabajadora.	artística.
		fuerte.	independiente.	tranquila.
		graciosa.	simpática.	
Creo que Jaime / José	es un chico	alegre.	perezoso.	práctico.
		divertido.	listo.	activo.
		feliz.	responsable.	serio.
		nervioso.	trabajador.	artístico.
		fuerte.	independiente.	tranquilo.
		gracioso.	simpático.	

El amigo ideal La amiga ideal	es	paciente divertido/a simpático/a alegre gracioso/a	у	te escucha. te hace reír. te entiende. te ayuda si tienes un problema. siempre contesta tus mensajes de texto. guarda tus secretos. siempre está ahí para ti. comparte tus intereses. no se pelea contigo.
-------------------------------------	----	--	---	--

Es una familia	homoparental.	Hay	un padre / dos padres	У	un hijo / dos hijos.
	monoparental.		una madre / dos madres		una hija / dos hijas.
	nuclear.		un abuelo		
	sin hijos.		una abuela		
	extendida.				
	reconstituida.				
	tradicional.				

¿Tienes mascotas?

¿Cómo es tu mascota?

Sí, tengo un perro – a dog un perrito – a puppy un gato – a cat un gatito – a kitten un conejo – a rabbit un pez – a fish ** un ratón – a mouse un pájaro – a bird un papagayo – a parrot un caballo – a horse un animal – a pet	con	un cuerpo — a body el pelo - fur	blanco - white negro - black amarillo - yellow rojo - red	azul - blue marrón - brown gris - grey rosa - pink verde - green naranja - orange	
	una tortuga – a tortoise una rata – a rat una paloma – a dove una araña – a spider una mascota – a pet		una cola – a tail	blanca negra amarilla roja	azul marrón gris rosa verde naranja
	iOjo! To make nouns plural, just add an "s". If they end in a consonant, add "es" вит рег - peces		unas patas – paws unas orejas – ears	blancas negras amarillas rojas	azules marrones grises rosas verdes naranjas

English	Verb	He / she me	They me
	Ayudar	Me ayuda	Me ayudan
	Apoyar	Me	Me
	Escuchar		
	Juzgar		Me juzgan
To make laugh	Hacer reir		
To make happy	Hacer feliz		
	Criticar	Me critica	
To give advice	Dar Consejos		
	Molestar		Me molestan
To give me what I want	Dar lo que quiero		
To accept me as I am	Aceptar como soy		

Theme 1 - Identity & Relationships with Others

¿Cómo te llamas? / ¿Cuál es tu nombre?	
What are you called?	
¿Cuál es tu apellido?	
What is your surname?	
¿Cómo se escribe tu apellido?	
How do you spell your surname?	
¿Dónde vives?	
Where do you live?	
¿Cuál es tu dirección?	
What is your address?	
¿Cuántos años tienes?	
How old are you?	
¿Cuándo es tu cumpleaños?	
When is your birthday?	
¿Cuántos personas hay en tu familia?	
How many people are there in your family?	
¿Te llevas bien con tu familia?	
Do you get on well with your family?	
¿Cómo es tu (mejor amigo / major amiga)?	
What is your (best friend) like?	
¿Tienes mascotas?	
Do you have pets?	

Textiles

What are Fibres?

A fibre is thin hair-like

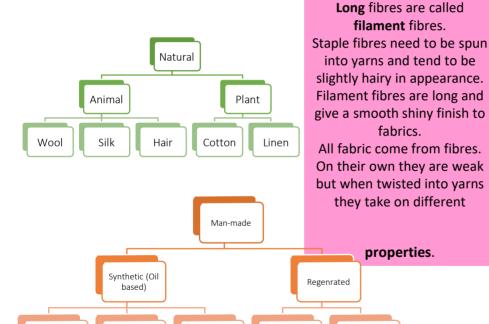
structure that can be either

long or short.

Short fibres are called

staple fibres.

In Year 9 you will learn both constructive and decorative skills. We will sample the skills and then create a variety of products to put our knowledge and skills to the test!



Spandex

Nylon

Polyester

Rayon

(viscose)

Acetate

Keyword	Definition
Seam Allowance	Seam allowance is the area between the fabric edge and the stitching line on two pieces of material being sewn together.
Hem	The edge of a piece of cloth or clothing that has been turned under and sewn.
Toile	An early version of a finished garment made up in cheap material so that the design can be tested and perfected.
Reverse stitch	The stitching is sewn in the opposite direction, this knots the thread at both ends.
Pattern	A pattern is used as a template to cut out fabric that matches the required specifications to sew a garment.
Appliqué	Appliqué is decorative needlework in which pieces or patches of fabric in different shapes are sewn down onto a larger piece of fabric.

Textiles - Questions

1. What is the main difference between staple fibres and filament fibres?	7. Why is the stitching sewn in the opposite direction at the ends of a seam?
2. Why do staple fibres tend to have a slightly hairy appearance?	8. How is a pattern used in the process of sewing a garment?
3. How do filament fibres affect the finish of fabrics?	9. What is appliqué and how is it used in textile design?
4. What happens to fibres when they are twisted into yarns?	Find at least 6 other different surface techniques and decorative skills in Textiles:
5. What is seam allowance and why is it important in sewing?	
6. What is the purpose of making an early version of a finished garment in cheap material?	Where can Natural fibres come from?

Textiles

Monomer > Polymer

A **Monomer** is an organic compound used to make a chain of **Polymers**. A **Polymer** is a high-molecular-weight organic compound, natural or manmade, consisting of many repeating simpler chemical units or molecules called monomers.

Examples **of natural polymers** are proteins (polymer of a sugar molecule). An example of a **synthetic polymer** is PVC (a polymer of a

	r example of a synthetic polymer is FVC (a polymer of a
Keyword	Definition
Embroidery	The art or process of forming decorative designs with hand or machine needlework.
Open Seam	Where the seam allowance, the piece of fabric between the edge of the material and the stitches, is visible.
Closed Sea	Opposite to an open seam, the seam allowance is pressed
m	the same way and stitched together as one.
Batik	Batik is an Indonesian technique of wax-resist dyeing applied to the whole fabric.
Sublimatio n	Sublimation printing transfers the dyes onto the fabric by using a heat press, meaning the ink and the fabric are now one item, rather than the dye sitting on the fabric to simply wash off.
CAD	Computer-aided design is the use of computers to aid in the creation, modification, analysis, or optimization of a design.
CAM	Computer Aided Manufacturing (CAM) is the use of software and computer-controlled machinery to automate a manufacturing process.

Woven	Knitted	Bonded
The yarn that runs horizontally or from side to side across the fabric is called the weft yarn.	Knitted fabrics are made from interlocking loops of yarn. There are two main types of knit	Dry Laid – a web of fibres is laid in a drum and hot air is injected to bond the fibres together.
The yarn that goes vertically or along the length of the fabric from the top to the bottom is called the warp yarn.	Weft Knit- In weft knitting the loops of yarn are linked across the width of the fabric.	Wet Laid – a web of fibres is mixed with a solvent that softens the fibres so that they stick together.
The warp yarn is also called the straight grain .	Warp Knit -In warp knitting the loops are linked in a vertical direction.	Direct Spun - the fibres are spun on to a conveyor belt and glue is sprayed on to them to make them stick together.
Warp direction Warp Interlacing point Weft W	Weft Knit Warp Knit	non-woven 173

Textiles - Questions

- 1. What is a monomer and how does it relate to a polymer?
- 2. Can you give an example of a natural polymer and a synthetic polymer?
- 3. What is embroidery, and how is it different from regular sewing?
- 4. Can you name some common tools and materials used in embroidery?
- 5. How do you think embroidery can be used to personalize clothing or accessories?
- 6. What is a closed seam, and how is it different from an open seam?
- 7. What is batik, and which country is it traditionally associated with?
- 8. How does sublimation printing make the ink and fabric become one item? $\frac{1}{2}$
- 9. Can you think of some products that might use sublimation printing?
- 10. What does CAD stand for, and what is its purpose?
- 11. What does CAM stand for, and how does it help in manufacturing?
- 12. Can you give an example of a product that might be made using CAM technology?

different constructions of fabric: Woven Knitted Bonded

Draw out the three