



Knowledge Organiser Autumn Term Year 7



A Knowledge Rich Curriculum at Great Sankey High School

Research around memory suggests that if knowledge is studied once and not revisited or revised, it is not stored in the long-term memory. This means that after one lesson, or revising for one test, the knowledge will not be retained unless it is studied again. To ensure that knowledge is embedded in the long term memory it must be revisited frequently. Ensuring knowledge is embedded aids understanding, and in turn makes future learning more successful. To quote Daniel Willingham's learning theory,

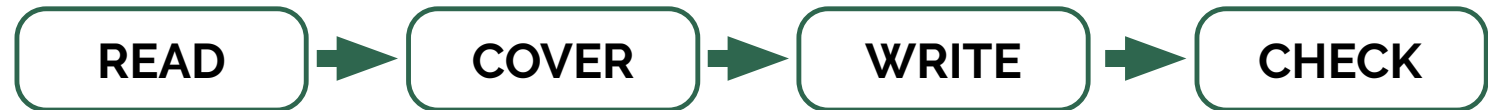
“Thinking well requires factual knowledge that is stored in our long-term memory”

As part of home learning, students should be revising what they have been taught recently but also content they were taught previously. Therefore, as part of our strategy to embed learning over time we have developed knowledge organisers across years 7-11. These will provide key content and knowledge allowing students to pre-learn and re-learn, a vital part of processing all the information required to be successful. This knowledge will form the backbone of assessments in school.

How to use your knowledge organiser

Knowledge organisers will be used in subject lessons, homework activities and form time and therefore you need to bring your knowledge organiser to school every day.

Ensuring that knowledge is retained into your long-term memory and you are ready for tests takes work!

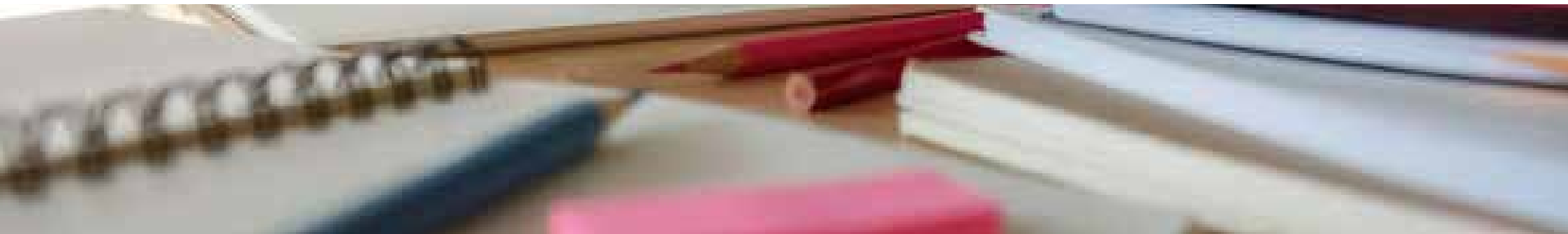


To encourage students to build good study habits, students will be assigned homework quizzes on a week A through the Google Classroom. Students will be expected to use revision strategies such as read, cover, write, check to learn key knowledge and will then complete the quizzes to demonstrate their learning. Completion of these quizzes is an essential homework activity and will be closely monitored by the pastoral team.

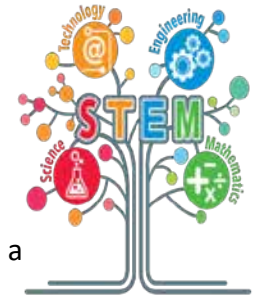
Other methods that you may wish to try at home are listed below:

- Create mind maps.
- Create flashcards.
- Get sticky with your learning: write out key points from the KO as you read over it on post-it notes.
- Write your own basic recall quizzing questions around the keywords, definitions and key facts that you need to know. Test yourself with these questions and then leave it overnight to answer them the next day.
- Write your own challenging questions using the following command words – explain, compare, evaluate. Then create a model answer for these questions.
- Put the key words from your KO into new sentences.
- Make mnemonics to remember the order of particular concepts.
- Draw a comic strip, storyboard or a timeline describing any series of events that have a chronological order.
- Write yourself or a partner some quiz questions. Quiz each other or swop your questions to see if you can answer each other's questions.
- Think about the big picture – why is knowing specific information important to you/other people/society/companies/science/technology? The more links that you can make, the more meaningful you make your learning and the more likely it is that you will remember it. Think about the big picture – are there any links in the content on your KO to anything that you have watched on TV, read about or heard in the news?
- Give yourself spelling tests.
- Definition tests.
- Draw diagrams of key processes or theories.
- Draw images and annotate/label them with extra information.
- Create fact files.
- Create flowcharts for descriptions or explanations that have a chronological order.
- Summarise in your own words each section.
- Get your parents/carers to test you.
- Pick out key words and write definitions.
- Pre-learning (read a section of your knowledge organiser prior to the lesson).
- Learn key quotes (if applicable). Consider what you may say about these quotes e.g. what the author is trying to make you think/feel, their choice of language, what can be inferred from it.
- Write a letter/blog/article to someone explaining a key idea or concept.
- Prepare to overcome any hurdles: write down any questions or any areas of the KO that you feel you need to speak to your teacher about.
- Use the guidance that may have been given with a specific KO to help you learn the information and use it.

***“Don't practise until
you get it right.
Practise until you
can't get it wrong.”***



Portable Knowledge in STEM at KS3



STEM stands for **Science**, **Technology**, **Engineering** and **Maths**, and it is important that you can see connections between each of these subjects. In the real world there are very few challenges that only require one set of skills. For example, you wouldn't be able to design a new app, video game or computer program without an understanding of all of the STEM concepts. This section of the knowledge organiser will show you how different STEM subjects have things in common, including examples of how you might use them, and how some things may actually appear slightly different from one subject to the next. As Geography is a Natural Science we can include that too.

EXAMPLE	SCIENCE	TECHNOLOGY & ENGINEERING	MATHS	GEOGRAPHY
Tally chart	Can be used to record the number of pupils in different height ranges in biology.	Can be used when choosing a final design choice from a selection of draft designs.	Can be used to record the number of pupils with different eye colours or what their favourite colour, favourite animal or favourite subject is.	Can be used to record the number of pedestrian or cars that pass a certain place.
Pie chart	Can be used to display the number of pupils with different eye colours in biology.	Can be used to display results of a tally chart.	Can be used to display the number of pupils who travel to school in different way.	Can be used to display the use of renewable and non-renewable energy resources.
Bar chart	Can be used to display the number of people with different blood groups in biology.	Can be used to display results of a tally chart.	Can be used to display the number of pupils with a different favourite sweet.	In geography the term histogram and bar chart are interchangeable and are used to display the percentage of forest lost in a range of countries for example.
Histogram	This is similar to a bar chart but the bars touch each other and they represent continuous data that is grouped, for example number of pupils in different height ranges in biology.	x	Can be used to display number of pupils in different height ranges.	
Line graph	Can be used to display the time taken for salt to dissolve at different temperatures in chemistry.	Can be used to represent trend data during research pieces.	In maths these are sometimes called scatter graphs or timeseries graphs. They can be used to display house prices or life expectancy.	Can be used to display temperatures of each month in different countries or rainfall in mm.
Line of best fit	In biology a line of best fit can be point to point, but in chemistry they are most often a straight line. In all 3 sciences they could be a curve depending on distribution of the points. For example the extension of a spring in physics.	x	In maths you might be asked to add a line of best fit to a scatter graph. It is always a straight line drawn with a ruler and can be used on graphs to show correlation between hours of revision and score in test or temperature and number of ice creams sold.	x

Portable Knowledge in STEM at KS3



Hopefully this section of the knowledge organiser will help you spot where things crossover from one STEM subject to another as you move from lesson to lesson. REMEMBER some things are exactly the same, some are very similar but might be called different things, and some things are different altogether!and don't forget STEM stands for **Science, Technology, Engineering and Maths**

EXAMPLE	SCIENCE	TECHNOLOGY & ENGINEERING	MATHS	GEOGRAPHY
Range	Range around a mean can be used with data for heart rate after exercise in Biology, amount of hydrogen gas produced in a chemical reaction in Chemistry and number of times a ball bounces in Physics.	x	Range around a mean can be used with data for heights, goals scored in a football match . In maths this includes looking at a table for ungrouped and grouped data.	Range when looking at rainfall and temperature data for different locations. Used when using development indicators such as literacy rate, life expectancy etc.
Mean, Median and Mode	Mean, median and mode can be used to analyse any sets of data with a range of results.	x	Mean, median and mode can be used to analyse any sets of data with a range of results.	Mean, median and mode can be used to analyse any sets of data with a range of results.
Continuous data	This is where you have any value in your data. In science an example would be length.	x	This is where you have any value in your data. In maths an example would be length.	This is where you have any value in your data. An example would be mm of rainfall.
Discrete data	In science this is sometimes called discontinuous data. An example would be blood group or eye colour in Biology.	x	Sometimes called primary or secondary data. Examples include age, shoe size, result from rolling a dice or the number of pets people have.	x
Using co-ordinates	x	x	4 and 6 figure grid references are used when plotting in 4 quadrants and used in transformations.	Both 4 and 6 figure references are used across all topics in geography to locate places from a map.
Taking measurements that are accurate and precise	Accurate data is close to the true value and precise data gives similar results if you repeat the measurement. In science there are far too many examples to mention!	Used when marking out materials prior to cutting and quality during checking when manufacturing a component.	4 and 6 figure references used across all topics to locate places from a map.	Measurements and accuracy are really important when studying map skills, especially when looking at scale and distance.

Year 7 Term 1		Definition Sentence	Contextual Sentence
1	analyse	To examine something in detail	Analyse the results of the experiment and write a conclusion.
2	approach	To come nearer to someone or something in distance or time. A way of dealing with a situation or problem.	As the exams approach, you should increase your revision. We approach this question by looking at all of the facts.
3	area	A region or part of a place. The extent or measurement of a surface or piece of land.	The houses are spread over a large area. Calculate the area of the square.
4	assessment	The action of measuring or testing someone or something.	You will have an end of term assessment.
5	assume	To suppose to be the case, without proof. To take or begin to have power or responsibility.	They assumed that they would get beaten in the match. He will assume the role of captain today.
6	available	To be able to be used or obtained.	We have new computers available to use.
7	benefit	An advantage or profit gained from something.	The benefits of reading for pleasure are well known.
8	concept	An idea / plan.	Develop your concept for a healthy menu.
9	consistent	Done in the same way over time to be fair or accurate.	Teachers need to make sure that their marking is consistent.
10	context	The setting (background) for an event, word, statement, or idea to make it fully understood.	Skilled readers use context to work out meaning from words as they are read.

11	create	To build or make something.	We can create a picture using paints and stencils.
12	data	Facts and statistics collected together for reference or analysis.	Exam data is collected every year in school.
13	definition	The meaning of a word, especially in a dictionary. The degree of distinctness in outline of an object, image, or sound.	It helps to learn the definitions of words. The definition of the pictures can be improved by using computer graphics.
14	derived	To get something from a particular source.	The answer was derived from the first two paragraphs.
15	environment	The surroundings or conditions in which a person, animal, or plant lives or operates.	Some animals adapt more quickly to their environment.
16	estimate	To roughly calculate or judge the value, number, quantity, or extent of.	Estimate how much wood you will need to make your design.
17	evidence	Facts or information to determine whether a belief is true.	What evidence can you find to show that Henry was a good king?
18	factors	Circumstances, facts, or influences that contribute to a result.	There are a number of factors to think about when answering the question.
19	formula	A list of ingredients with which something is made.	A blend of ten spices make up the secret formula for the sauce.
20	function	To work or operate in a proper or particular way.	Explain the function of safety goggles when using a drill.

Tier 2 Vocabulary

21	indicate	To point out or show.	Indicate the main parts of the plant on the diagram.
22	interpretation	An explanation or way of explaining.	We may all have different interpretations of the artwork.
23	issues	An important topic or problem for debate or discussion.	There were a number of issues faced by returning soldiers after the war.
24	major	Important, serious, or significant.	A lack of water is a major problem in this part of the world.
25	method	A way of doing something.	Describe the method for measuring rainfall.
26	occur	To happen or take place.	The prize giving will occur at 12.30 pm.
27	percent	One part in every hundred. (%)	You need at least 60 percent to pass.
28	principle	A basic rule or law.	A basic principle of economics is supply and demand.
29	procedure	An official way of doing something.	If you are late for school, you must follow the signing in procedure.
30	process	A series of actions taken to achieve a particular outcome.	Reaching agreement to end the war was a difficult process.
31	research	To investigate systematically.	You can carry out research by using books or the internet.

32	response	A verbal or written answer; a reaction to something.	Write your response in the box below.
33	role	The function assumed or part played by a person or thing in a particular situation.	She will have the lead role in the play.
34	section	A separate group or part of something.	The box can be built in sections.
35	significant	Important.	Martin Luther King Jr. was a significant figure in the Civil Rights era.
36	similar	Looking like or having the character of, without being identical.	The players have similar skills.
37	source	Where something or someone comes from.	The source of the river is in the nearby hills.
38	specific	Clearly defined or identified.	The recipe is very specific.
39	structure	The quality of being organized. A building or other object made from several parts.	Structure your essay carefully. The structure took several years to build.
40	theory	A system of ideas intended to explain something.	He needs more evidence to prove the theory.
41	variables	Something that is likely to vary or change.	The experiment has several variables, including heat and time.

Who is Tom Rogers?

As an Emmy-winning screenwriter and author, Tom Rogers has written numerous animated films and TV shows including Elena of Avalor and Sofia the First. *Eleven* is his first novel for young adults.

When asked about why he wrote *Eleven* he responded “The events of that day need to be told and passed on. I know it’s hard for people to talk about it. It’s still fresh for many of us and we still get emotional, but we need to make sure that future generations don’t forget.”

What was 9/11?

On September 11, 2001, members of a terrorist group called al-Qaeda hijacked, or took over, four airplanes in the United States.

The terrorists flew two of the planes into the World Trade Center in New York City. The third plane was flown into the Pentagon, near Washington, D.C. The fourth plane crashed in a field in Pennsylvania.

The attacks against New York City and Washington DC caused extensive death and destruction and triggered an enormous US effort to combat terrorism.

***Eleven* focus on the impact of the events in New York City.**

Eleven by Tom Rogers

The setting of the novel is in New Jersey told from the perspective of Alex Douglas. When the narrative changes to the man in the white shirt it focus on Manhattan and The World Trade Centre.

The 5 Elements of Freytag's Pyramid

Here are definitions for the five elements of Freytag's Pyramid:

1. Introduction

The introduction contains both the **exposition** and "inciting incident":

Exposition. This is a scene in which no major changes occur and the point is to introduce the main characters, time period, and tone, and set up the "exciting force."

Exciting Force. when some force of will on the part of the **protagonist** or an outside complication forces the protagonist into motion.

2. Rising Action

Now that the chief action has been started, the story builds in action toward the climax. Any characters who have not as of yet been introduced should be introduced here.

3. Climax

In Freytag's framework, the **climax** occurs **in the middle of the story**.

In this framework, the climax can be thought of as a reflection point. If things have gone well for the protagonist, at the climax they start to fall apart tragically.

As Freytag puts it, "This middle, the climax of the play, is the most important place of the structure; the action rises to this; the action falls away from this."

4. Falling Action

In the **falling action**, things continue to either devolve for the protagonist or, in the case of a comedy, improve, leading up to the "force of the final suspense," a moment before the catastrophe, when the author projects the final catastrophe and prepares the audience for it.

5. Catastrophe or Denouement

Freytag was chiefly focused on tragedy, not comedy, and he saw the **ending** phase of a story as the moment of catastrophe, in which the main character is finally undone by their own choices, actions, and energy.

After the catastrophe is a moment of catharsis, where the action of the story is resolved and the tension releases as the audience takes in the story's final outcome.

While Freytag never uses the word "**denouement**" in his own framework, people interpreting him have used the term to describe endings with a happy result for the protagonist.

Freytag pyramid



Key Word	Definition	Contextual Sentence
Protagonist	In Literature, the leading character or one of the major characters in a drama or narrative.	Alex Douglas is the protagonist of Eleven.
Antagonist	In Literature, the principal opponent in a drama or narrative. The word is from the Greek ' <i>antagnistés</i> ' which means opponent or rival.	Jordan McCreavey is the antagonist in Eleven.
Hero	A person who is admired for their courage, outstanding achievements or noble qualities.	The emergency response workers during 9/11 are heroes .
Collective Consciousness	The collective consciousness is a set of beliefs, values and attitudes shared by most people in society.	9/11 is an event that affect the collective consciousness of many people around the world, each with their own story to tell.
Suspense	Suspense is the intense feeling that a reader or audience goes through whilst waiting for the outcome of certain events.	The falling action of the story creates suspense for the reader.
Narrative hook	A narrative hook is used by authors to capture the audience attention and keep them engaged in the story. Hooks can include dramatic action, a mysterious setting and engaging characters.	The dramatic action in the novel is the narrative hook for readers.
Narrative perspective	Narrative perspective or voice, is the perspective the story is told and what is told.	The story is told from the narrative perspective of an omniscient narrator.
Foreshadowing	A warning or indication of a future event.	A cliff hanger is a method used by writers to create suspense.
Characterisation	Characterisation is the way an author describes or shows what a character is like. It refers to the set of qualities that make someone, or something, different from others.	At the beginning of the novel, Alex's character is shown to be forgetful and a bit of a daydreamer.
Theme	A theme refers to the central, deeper meaning of a written work.	One of the main themes in Eleven is childhood.
Symbolism	A literary device in which a writer uses one thing, such as a physical object, to represent something beyond the literal meaning.	A dove is a symbol of peace. A four-leaf clover symbolizes good luck and fortune.
Dual Narrative	A dual narrative is a story told from two different perspectives. Usually, these perspectives belong to different people but a dual narrative can also be told by the same person at different moments in time.	Eleven is written from the perspective of Alex Douglas and The Man in The White Shirt

Identity

<p>What is identity?</p> <ul style="list-style-type: none"> • a person's name and other facts about who they are: • the fact of being, or feeling that you are, a particular type of person, organization, etc.; the qualities that make a person, organization, etc. different from others: 	
<p>An Introduction to Poetry</p> <p>Definition: Poetry is a type of literature that conveys a thought, describes a scene or tells a story in a concentrated, lyrical arrangement.</p>	
Topics	<ul style="list-style-type: none"> • Poems are usually about a person, a place, an event, memory or reflection (thinking of feelings about something). They are often observations of very small details. • Poets will take the reader on a journey. However, where we end up may or may not be at the same point in terms of feelings and ideas.
Structure	<p>Poems can be structured with:</p> <ul style="list-style-type: none"> • Rhyming lines and meter • Freeform (no formal structure) <p>Poems are structured using stanzas (grouping of lines related to the same thought/ topic)</p>
Form	<p>There are 'rules' that poets would traditionally follow.</p> <p>Different forms would be used for different topics e.g. Sonnet – love poetry</p>
Imagery	<p>Imagery is linked to the five senses: visual, olfactory (smell), Gustatory (taste), Tactile (touch) and auditory (sound).</p> <p>Poetry uses imagery to appeal to the senses through describing living things or inanimate objects.</p>
Punctuation	<p>. Punctuation is important in poetry.</p> <ul style="list-style-type: none"> • Caesura forces a pause and a moment of reflection by slowing the pace. • Enjambment has the effect of making the idea or thought run on. This could show emotions running out of control or disorganised, instant thoughts.
Regular/ Irregular	<ul style="list-style-type: none"> • Regularity in poems often suggests something has been thought about for a long time a deep and considered reflection. Regular poems may suddenly break the pattern to stop the reader and force them to pause and reflect. • Irregularity in poems can suggest sudden thoughts, reflections and observations, for example a sudden memory. It can also show disharmony, problems and conflict.

Key Vocabulary	Definition	Contextual Sentence
Alliteration	The repetition of identical consonant sounds, most often the sounds beginning words, in close proximity.	Pensive poets, picture perfect, money matters
Allusion	A reference to something or quotation that the poet thinks the reader will recognise.	She felt like she had won a golden ticket – Willy Wonka and the Chocolate Factory He acts like Scrooge – A Christmas Carol
Anaphora	Repetition of the same word or phrase at the beginning of a line	In every cry of every Man, In every infant's cry of fear, In every voice, in every ban, (London, William Blake)
Assonance	Repetition of the vowel sound across words within the lines of the poem creating internal rhymes.	Hop-scotch, deep green
Caesura	A short but definite pause used for effect within a line of poetry	To be, or not to be — that is the question...
Consonance	The repetition of consonant sounds in a line of text	Pitter patter, lily livered
Couplet	Two successive rhyming lines.	Couplets end the pattern of a Shakespearean sonnet
Diction	Usually used to describe the level of formality that a speaker uses	Formal diction – proper, elevated, elaborate language. Informal diction – relaxed, conversational and familiar language.
Enjambment	A line that has no end punctuation and continues onto the next line	And he will make the face of heaven so fine That all the world will be in love with night And pay no worship to the garish sun..
Extended Metaphor	A metaphor that extends over the course of multiple lines in a text or stanzas in a poem.	Life is a <u>book</u> , lying on a tabletop, its pages outspread like a thousand wings of a bird.

Hyperbole	Deliberate exaggeration for effect	I'm so hungry, I could eat a horse. I'm dying of thirst.
Juxtaposition	Placing of two contrasting things or ideas close together.	The icy wind warmed her heart.
Metaphor	A comparison between two unlike things, this describes one thing as if it were identical.	Time is money. He's buried in a sea of paperwork.
Meter	The number of feet within a line of traditional verse.	Shakespeare wrote in Iambic Pentameter.
Onomatopoeia	A blending of constant and vowel sounds designed to imitate the activity being described.	Bang, slurp, buzz
Oxymoron	Place of two contrasting things or ideas next to each other for effect.	Dead smile, organised chaos
Personification	Giving human characteristics to non-human things.	The windows watched as they walked past.
Repetition	Repeating a word or idea throughout a poem to emphasise it.	Home sweet home, time after time, rain rain go away
Rhyme	The repetition of identical concluding syllables in different words, most often at the end of lines.	June – moon
Rhyme Scheme	The pattern of rhyme, usually indicated by assigning a letter of the alphabet to each rhyme at the end of a line of poetry.	The rhyme scheme in the poem was AABCC.
Semantic field	A group of words connected by topic, meaning or theme	The stages of life – child, toddler, adult. Nature – tree, leaf, grass, flower
Simile	A direct comparison between two dissimilar things using like or as.	He is as strong as an ox.

Rounding

How to round numbers

- Decide which is the last digit to keep
- Leave it the same if the next digit is less than 5 (this is called **rounding down**)
- But increase it by 1 if the next digit is 5 or more (this is called **rounding up**)

Examples

Round 78 to the nearest 10

We want to keep the "7"
The next digit is "8" which is 5 or more, so increase the "7" to "8"
Answer 80
(78 gets rounded up)

Round 8.47 to the nearest integer

We want to keep the "8"
The next digit is "4" which is less than 5, so no change is needed to the "8". The other digits are ignored
Answer 8
(8.47 gets rounded down)

How to round to decimal places

Round 22.57 to 1 decimal place i.e. we must have 1 number after the decimal point

22.57
As the 5 is the first number after the decimal point, we round this based upon the second number, the 7.
As 7 is 5 or more, we round up so 22.57 becomes 22.6

Round 7.832 to 2 decimal places i.e. we must have 2 numbers after the decimal point

7.832
As 8 and 3 are the first two numbers after the decimal point, we round based upon the third number, the 2.
As 2 is less than 5, we round down so 7.832 becomes 7.83

Significant Figures

Significant figures are the number of **digits** in a value, often a measurement, that contribute to the degree of accuracy of the value.
We start counting **significant figures** at the first non-zero digit.

Examples

Round 37 to 1 significant figure

We want the answer to have only **1 non-zero** digit.
Look at the 2nd digit
7 rounds the 3 up, and replace everything else with a zero.
Answer = 40

Round 45826 to 2

We want the answer to have only **2 non-zero** digits.
Look at the 3rd digit
8 rounds the 5 up, and replaces everything else with a zero.
Answer = 46000

Order of Operations

BIDMAS

() x^y ÷ or × + or -
Brackets Indices Divide & Multiply Add & Subtract

Order of Operations →

Using a calculator

The most likely models that you have are



Casio fx-83 GTX
(with an S⇌D button)



Casio fx-83GT CW
(with FORMAT and EXE)

Key Buttons that you need

Function	fx-83GTx	fx-83GT CW
Shift button		
Number format: fractions to decimals to surds		
Fraction Button		
Brackets		
Square and cube numbers		
Square and Cube Root		
Power		
Negative Number		
Last answer saved		
Standard Form		
π (Greek letter pi)	Shift and	Shift and

Year 7 Mathematics Knowledge Organiser

Topic
Statistics – Collect, Represent and Analysing Data

Where does the word Median come from?
From the French word *médian* (15c.) which means "pertaining to or situated in the middle, occupying a middle or intermediate position," and directly from Latin *medianus* "of the middle," from *medius* "in the middle"

Vertical Line Graphs
Vertical line graphs follow the same rule set as bar charts, but only use a thin straight line rather than chunky bars.

Pie Charts

Pie charts are used to display data by representing one unit of frequency according to a set angle size.

Ice Cream Flavour	No of people	Angle
Chocolate	7	$7 \times 20 = 140^\circ$
Strawberry	5	$5 \times 20 = 100^\circ$
Vanilla	4	$4 \times 20 = 80^\circ$
Mint	2	$2 \times 20 = 40^\circ$
Total	18	360°

Correlation

Correlation represents a relationship between 2 variables.

Positive Correlation

Negative Correlation

No/Mixed Correlation

Bar Charts

Bar charts can only be used to display discrete data, and must have the following:

- Bars - Equal width
- Equal gaps
- Labels
- Axis
- Scale
- Title

Averages

Hey diddle diddle, the **median's** the **middle**
You **add then divide** for the **mean**
The **mode** is the one you see the **most**
And the **range** is the **difference** between

Mode	Range	Median	Mean
Find the mode of 1, 3, 6, 4, 3, 2, 7, 8, 10	Find the range of 2.6, 3.7, 2.1, 8.4, 2.9, 3.6	Find the median of 6, 4, 3, 6, 7, 11, 9, 15	Find the mean of 8, 6, 2, 3, 11, 12, 0
Find the number that appears the most (Putting them in order can help)	Find the Highest and Lowest numbers and calculate Highest - Lowest	Put the numbers in order, smallest first 3 4 6 6 7 9 11 15	Find the sum of the numbers Total = 42
3 appears the most	Highest = 8.4 Lowest = 2.1	There are two numbers in the middle, 6 and 7 - find halfway between them $(6 + 7) \div 2 = 6.5$	There are 7 items in the data set (the numbers) so we will divide by 7 $42 \div 7 = 6$

Comparative Bar Charts

Displays more than 1 set of data, and allows for easy comparisons

Dual Bar Chart
Groups data next to each other

Composite Bar Chart
Stacks data on top of each other

Where does the word metric come from?

- If something is metric, it is related to a system that uses the metre as a basic measurement.
- The word metric traces back to the French word *métrique*, from *mètre*. The word is most often used to describe a widely used system of measurement based on the **metre**, called the **metric system**.
- Metric can describe the system as well as things related to the metric system.

Metric Units

Metric units of measurement are the metric units of measurements used for different quantities.

Metric Base Units			Prefixes of metric units				
Quantity	Base Unit	Symbol	Prefix	Symbol	Factor		
length	metre	<i>m</i>	kilo	<i>k</i>	10^3	1000	thousand
mass	gram	<i>g</i>	centi	<i>c</i>	10^{-2}	0.01	hundredth
capacity	litre	<i>l</i>	milli	<i>m</i>	10^{-3}	0.001	thousandth

It is important that you are comfortable choosing suitable metric units

How to use a suitable metric unit of measurement

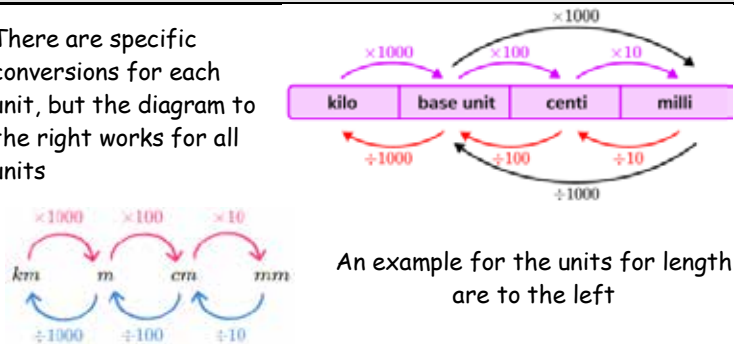
1. Consider the quantity.
2. Consider the size.
3. Write down the most sensible choice.

The different sizes of metric measurements

Quantity	← Larger unit	Base unit	Smaller unit →
Length	kilometre	metre	centimetre millimetre
Mass	tonne	kilogram	gram
Capacity		litre	centilitre millimetre

Metric Conversions

There are specific conversions for each unit, but the diagram to the right works for all units



Imperial Units

Imperial units of measurement are an older system of measurements but some are still used in everyday life

Metric → Imperial
Imperial → Metric

1 inch = 2.54 cm
To convert inches to cms: multiply by 2.54
To convert cms to inches: divide by 2.54

1 gallon = 4½ litres
To convert gallons to litres: multiply by 4.5
To convert litres to gallons: divide by 4.5

1 Km = 5/8 mile
To convert Kilometres to miles: multiply by 5/8 (0.625)
To convert miles to Kilometres: divide by 5/8 (0.625)

1 litre = 1¾ pints
To convert litres to pints: multiply by 1¾ (1.75)
To convert pints to litres: divide by 1¾ (1.75)

1 Kg = 2.2 lbs
To convert Kilograms to pounds: multiply by 2.2
To convert pounds to Kilograms: divide by 2.2

Imperial units are the main unit used in only three countries, the United States, Myanmar (sometimes know as Burma) and Liberia.

A number of countries have some Imperial units in society, like the UK, but countries that work together will use the metric system as it is easier to calculate with.

How to convert between units

The **conversion of units** allows us to convert between metric and imperial units of measurement and to convert between seconds, minutes and hours.

To do this we need to know how the two units of measurement are linked and thus the conversion factor. E.g. Using the information

1 inch ≈ 2.5 cm The conversion factor is 2.5.

Write 14 inches as cm

$14 \times 2.5 = 35$

So, **14 inch ≈ 35 cm**

Converting between metric units: length, area and volume

In order to use units of measurement:

- 1 Check what is being measured.
- 2 Check if metric units are being used.
- 3 Check if a conversion is required.
- 4 Check the conversion factor.
- 5 Check if area or volume is involved.

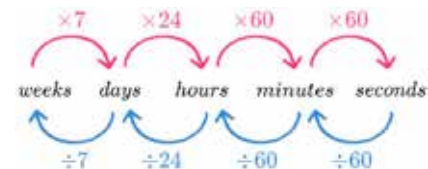
Converting metric units of area:
mm² → cm² → m²
×100, ÷100, ×100, ÷100

Converting metric units of length:
mm → cm → m
×10, ÷10, ×10, ÷10

Converting metric units of volume:
mm³ → cm³ → m³
×1000, ÷1000, ×1000, ÷1000

Converting between units of time

We can convert units of time by remembering the most common unit conversions:



Mathematics Command Words – Tier 2 Vocabulary

<p style="text-align: center; background-color: #FFFF00; margin: 0;">Assess</p> <p>Make a judgement or decision based on the information you have.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Assess the statements below and decide whether they are true or false.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Calculate</p> <p>Work out, showing your method where necessary.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Calculate the missing angles in this diagram...</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Compare...and/to/with</p> <p>Work out or identify the values required and say which is smaller/larger, etc.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Compare the following calculations and say which is larger. 23% of 50 or 60% of 20</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Convert (Number)</p> <p>Change a value from one numerical form to another.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Convert 0.74 into a fraction in its simplest form.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Draw</p> <p>Give an accurate depiction of a graph, map, diagram, etc.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Draw the graph of $y = x^2$ using values of x from -2 to 2</p>
<p style="text-align: center; background-color: #FFFF00; margin: 0;">Estimate</p> <p>After rounding given values, give an approximate answer to a calculation or measurement.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Estimate the answer to $\begin{array}{r} 8.62 + 22.1 \\ \hline 5.23 \end{array}$ giving your answer to 1 significant figure.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Convert (Measure)</p> <p>To change from one unit of measurement to another.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Convert 300m into cm.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Units</p> <p>A standard measure of a physical quantity such as weight or length.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Find the area of the shape, make sure you state the units in your answer.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Approximate</p> <p>Finding or measuring to an acceptably close value to the exact value.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Use 3.14 as an approximate value for pi in your calculations.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Plot</p> <p>To place a point on a coordinate plane by using X and Y coordinates.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Plot the point (3,5) on the grid above.</p>
<p style="text-align: center; background-color: #FFFF00; margin: 0;">Using an appropriate scale...</p> <p>A scale is a set of numbers that indicate certain intervals on a graph.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Plot the points on a scatter graph using an appropriate scale.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Pie chart draw accurately</p> <p>The chart has been drawn to scale using the correct angle measurements, you can measure the sectors of the chart using a protractor.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>The pie chart shows students favourite subject, the pie chart is drawn accurately.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Using your line of best fit...</p> <p>You must use the line on the graph to answer the question. The line of best fit refers to a line that best expresses the relationship between the points.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Using your line of best fit, find the number of students who scored higher than 75%.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Compare (data)</p> <p>To compare two or more sets of data using an average (Mean, median or mode) and a spread (range or IQR).</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Compare the results of the classes 9A and 9B.</p>	<p style="text-align: center; background-color: #FFFF00; margin: 0;">Measure</p> <p>Use a ruler to measure a length or a protractor to measure an angle.</p> <p style="text-align: center; background-color: #D3D3D3; margin: 0;">Example Application</p> <p>Measure the angle ABC correct to the nearest degree.</p>

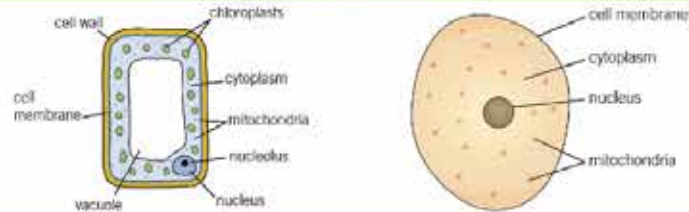
Mathematics Command Words – Tier 3 Vocabulary

Metric	Imperial	Quadrant	Capacity	Coordinate
The set of standard units defined to measure length, weight, area and capacity eg cm,m,km.	A system of weights and measures used historically. In England we still use some of these measurements today for example miles.	One of the four sections of a rectangular coordinate plane.	The amount that something can hold.	A set of numbers that specify the position of a point on a coordinate plane.
Which of the following is a metric unit: inches or mm?	Which of the following is an imperial unit: miles or km?	Plot a point in the first quadrant .	Choose a suitable measurement for capacity cm , mm , ml , kg.	On the grid plot the coordinate (6,2).
Frequency diagrams	Outlier	Scatter graph	Axis	Coordinate plane
A way of representing data from a frequency table.	A value that lies outside most of the other values in a set of data.	A representation of data that is used to analyse relationships between two variables.	Lines that form the coordinate plane.	A place formed by the intersection of a horizontal number line and a vertical number line. The number lines intersect at their zero points.
Draw a frequency diagram from the frequency table below.	What is the coordinate of the outlier ?	What correlation is shown in the scatter graph above?	Draw the line $y=6x$ make sure you label your axis .	On the coordinate plane plot the point (6,2).
Integer	Product	Sum	Negative	Number line
A number that has no fractional part and no digits after the decimal point. A whole number.	The result of a multiplication.	The result of an addition.	A real quantity having a value less than zero.	A straight line with numbers placed at equal intervals along its length.
What integers satisfy the inequality $5 < x < 9$	Find two numbers with a product of 20.	Find two numbers with a sum of 20.	Multiply negative 7 by 6	On the number line below represent $5 < x < 9$

All living things (organisms), are made of **cells**. Some are only made of a single cell, for example, bacteria. A person is made up of millions of cells joined together.

Plant and animal cells

Cells have smaller structures inside them, called components, that each have an important function.



Specialised cells

Specialised cells have special features that allow them to do a specific job or function:

	Cell type	Function	Special features	Diagram
plant cells	root hair cell	absorb water and nutrients from soil	<ul style="list-style-type: none"> root hair creates a large surface area no chloroplasts as no light underground 	
	leaf cell (palisade cell)	carry out photosynthesis	<ul style="list-style-type: none"> found at the top surface of leaves packed with chloroplasts thin with a large surface area to absorb more light 	
animal cells	red blood cell	transport oxygen around the body	<ul style="list-style-type: none"> contain haemoglobin which joins to oxygen no nucleus disc shaped to increase surface area 	
	nerve cell (neurone)	carry electrical impulses around the body	<ul style="list-style-type: none"> long and thin with connections at each end 	
	sperm cell	carry male genetic material	<ul style="list-style-type: none"> streamlined head and a long tail lots of mitochondria to transfer energy 	

Unicellular organisms

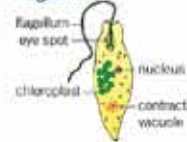
A **unicellular** organism only consists of one cell. They have no fixed shape and are adapted to carry out many different functions.

Amoeba



- nucleus controls growth and reproduction
- move by moving part of their body and the rest follows slowly in the same direction
- eat bacteria, algae, and plant cells by engulfing them
- reproduce by splitting in half (binary fission)

Euglena



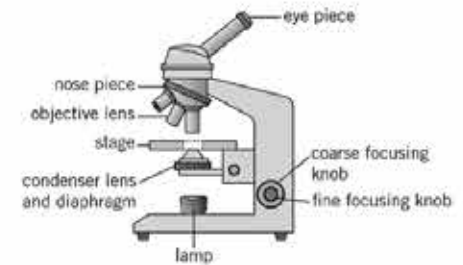
- microscopic organism found in fresh water
- contain chloroplasts and make their own food by photosynthesis
- eye spot that detects light
- flagellum allows the Euglena to move towards the light to make more food

Microscopes

Cells can only be seen under a microscope. A microscope magnifies an object using lenses.

Remember that:

- the specimen needs to be thin so light can pass through
- a dye can be added to make the object easier to see.



Using a microscope

- 1 Move the stage to its lowest position.
- 2 Place the slide/object on the stage.
- 3 Choose the objective lens with the lowest magnification.
- 4 Look through the eyepiece and turn the coarse-focus knob slowly until you see the object.
- 5 Turn the fine focus knob until it comes into focus.
- 6 Repeat steps 1–5 using a higher magnification lens.

Movement in and out of cells

Particles move in and out of cells by **diffusion**.

During diffusion, particles spread out from where they are in **high concentration** to where they are in **low concentration**.

Diffusion in water is called **osmosis**.

Glucose and oxygen move from the blood **into** cells by diffusion.

Carbon dioxide moves **out of** cells to the blood by diffusion.

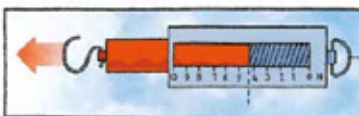
Year 7 Unit - Cells		
Key word	Definition	Contextual sentence / Example
amoeba	A unicellular organism.	An amoeba is made of only 1 cell.
cell wall	The plant cell component that surrounds the cell, providing support.	Only plant cells have a cell wall .
cells	The smallest functional units in an organism – the building blocks of life.	Cells need a microscope to be observed.
chloroplasts	The plant cell component where photosynthesis takes place.	Leaf cells contain lots of chloroplasts .
concentration	A measure of the number of particles of a substance in a given volume.	Particles of a high concentration always move to an area of low concentration.
diffusion	The movement of liquid or gas particles from a place of high concentration to a place of low concentration.	Oxygen diffuses into red blood cells in the lungs.
euglena	Unicellular organism that performs photosynthesis.	Euglena are found in freshwater.
leaf cell	The plant cells that contain chloroplasts, where photosynthesis takes place.	Leaf cells are found near the top of a leaf and have a large surface area.
nerve cell	An animal cell that transmits electrical impulses around the body.	A nerve cell in a giraffe's neck can reach up to 6 feet long.
nucleus	The cell component that controls the cell and contains genetic material.	Nearly all cells contain a nucleus .
red blood cell	An animal cell that transports oxygen around the body.	A red blood cell does not contain a nucleus.
root hair cell	A plant cell that takes in water and minerals from the soil.	A root hair cell has a large surface area.
specialised cell	A cell whose shape and structure enable it to perform a particular function.	A nerve cell (long and thin) is a specialised cell .
sperm cell	A cell containing male genetic material.	A sperm cell has a tail to help it swim.
unicellular	Consisting of just one cell.	An amoeba is a unicellular organism.
vacuole	The plant cell component that contains cell sap and helps to keep the cell firm.	Vacuoles are much bigger than chloroplasts.

Year 7 Unit- Particles		
Key word	Definition	Contextual sentence/ example
boiling	The change of state from liquid to gas that occurs when bubbles of the substance in its gas state form throughout the liquid.	The pan was boiling as bubbles were observed throughout it.
boiling point	The temperature at which a substance boils.	The boiling point of water is 100C.
change of state	The process by which a substance changes from one state to another.	An ice cream undergoes a change of state when left in the sun.
condense	The change of state from gas to liquid.	Steam from a boiling kettle will condense on a cold window.
diffusion	The movement of liquid or gas particles from a place of high concentration to a place of low concentration.	The smell of burnt toast could be detected from another room by diffusion .
evaporate	The change of state from liquid to gas that occurs when particles leave the surface of the liquid only. It can happen at any temperature.	A puddle of water will evaporate quickly on a hot sunny day.
freezing	The change of state from liquid to solid.	Freezing water turns it from a liquid to a solid (ice).
gas	In the gas state, a substance can low and can also be compressed.	Oxygen is an invisible gas .
liquid	In the liquid state, a substance can flow but cannot be compressed.	Chocolate can be turned into a liquid by heating it.
melting	The change of state from solid to liquid.	Ice cubes can be observed melting when removed from the freezer.
melting point	The temperature at which a substance melts.	Ice has a melting point of 0c.
mixture	A material whose properties are not the same all the way through.	Sea water is a mixture .
particle	The tiny things that materials are made from.	In science we represent particles with solid spheres or circles.
solid	In the solid state, a substance cannot be compressed and it cannot flow.	At room temperature Mercury is the only metal that is not solid .
states of matter	The three forms in which a substance can exist – solid, liquid, and gas.	We can represent a state of matter with a small letter e.g. solid (s)

What are forces?

A **force** can be a *push* or a *pull*.

Forces can be measured using a **newtonmeter**.
Forces are measured in **newtons (N)**.



Contact forces occur when objects are touching, for example:

- **friction**
- **drag forces** (air resistance and water resistance)
- support forces (e.g., **reaction forces**)

Non-contact forces work at a distance, for example:

- **gravity**
- **magnetic force**
- **electrostatic force**

Forces always occur in pairs.
The pairs are called **interaction pairs**.



Balanced and unbalanced forces

When the forces acting on an object are the same size, but act in opposite directions, we say that they are **balanced**.

The balanced forces cancel out, and the object is in **equilibrium**.



If the forces are not the same size, and do not cancel each other out, we say they are **unbalanced**.

The larger the difference between unbalanced forces, the quicker the object will change speed.



Drag forces and friction

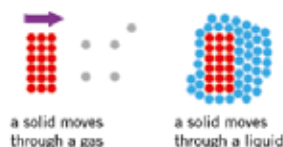
Friction is a contact force that occurs when two objects move against each other. It happens because all surfaces have some roughness – even ones that look smooth.

Friction can be reduced by adding **lubrication** (e.g., oil or grease).

Friction is often useful, for example:

- you need friction to walk across surfaces
- the brakes on a bike need friction to work.

A solid moving through a liquid or a gas has to push the liquid or gas particles out of the way. This produces a drag force on the solid object.



Water resistance and air resistance are drag forces.

Drag forces can be useful if we need to slow something down, for example, by using parachutes.

Making an object more **streamlined** will reduce the drag forces on it.

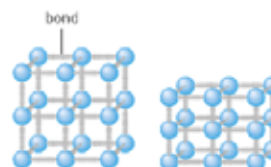
Reaction forces

When you stand on the floor:

- your weight pushes the particles in the floor together
- the bonds between the particles are **compressed**
- the compressed particles push back and support you.

A support force that balances the weight of an object is called the reaction force.

Upthrust is another example of a support force.



Fields and non-contact forces

In physics, a **field** is a special region where certain objects experience a non-contact force. For example, when

- a mass experiences a force in a gravitational field
- a magnetic material (like iron) experiences a force in a magnetic field
- a charged object experiences a force in an electrostatic field.

As you get further away from a mass, a magnet, or a charged object, the field gets weaker.

Weight and mass

Mass is the amount of 'stuff' something is made of – it is measured in kilograms (kg).

Weight is a force so it is measured in newtons.

$$\text{weight (N)} = \text{mass (kg)} \times \text{gravitational field strength (N/kg)}$$

The **gravitational field strength** on Earth is about 10 N/kg.

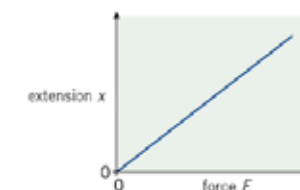
Your weight depends on the gravitational field strength but your mass is the same everywhere.

Hooke's law

Some objects – like springs – can be **stretched** when pulled. The amount they stretch by is called the **extension**.

A force called **tension** makes a spring return to its original length (unless it has gone beyond its **elastic limit**).

Hooke's law states that the extension of a spring doubles when you double the force. This means there is a **linear** relationship between force and extension.



Year 7 Unit -Forces		
Key word	Definition	Contextual sentence / example
air resistance	The force on an object moving through the air that causes it to slow down (also known as drag).	Air resistance can be reduced by making an object more streamlined.
balanced	Forces acting on an object that are the same size but act in opposite directions.	An object won't change speed when the forces are balanced .
contact force	A force that acts when an object is in contact with a surface, air, or water.	Friction is a contact force .
deform	To change shape.	A bungee rope deforms when stretched.
drag force	The force acting on an object moving through air or water that causes it to slow down.	A parachute creates a drag force .
electrostatic force	The force acting between two charged objects.	A balloon that has been rubbed can pick up paper by using an electrostatic force .
extension	The amount by which an object gets longer when a force is applied.	The extension of a spring is related to the mass added.
field	A region where something feels a force.	The stronger a magnet the bigger it's magnetic field .
friction	The force that resists movement because of contact between surfaces.	Not enough friction caused the car to slide off the wet road.
gravity	A non-contact force that acts between two masses.	Gravity on Earth is about 6 times greater than gravity on the moon.
Hooke's Law	The law stating if you double the force on an object the extension will double.	Springs are used to demonstrate Hooke's Law .
kilogram (kg)	A unit of mass, symbol kg.	There are 1000 grams in a kilogram .
magnetic force	The force between two magnets, or a magnet and a magnetic material.	The magnet force caused the iron nail to move towards the magnet.
mass	The amount of matter (stuff) a thing is made up of.	Mass is measured in kilograms.
newton (N)	The unit of force, symbol N.	Weight is measured in Newtons .
Newton meter	A piece of equipment used to measure weight in newtons.	A newton meter is also called a spring balance.
non-contact force	A magnetic, electrostatic, or gravitational force that acts between objects not in contact.	Gravity is a non-contact force .
weight	The force of the Earth on an object due to its mass.	An object's weight decreases when measured on the Moon compared with Earth



Half Term One
What is a community?
1. What is a community?
2. What unites and divides communities?
3. What rights and responsibilities do I have in my community?
4. What would a perfect community be like?
5. Who is my neighbour?
6. What can we learn from religious communities?
7. Review and assessment

1. What is a community?

A community refers to people who live in a particular area. It can also mean a group of people who share common interests. You are part of the Warrington community. You may also be part of a community with common interests such as a swimming team, football team, Scouts or Brownies.

You are part of the Great Sankey High School community- we share a particular area together but also a common interest to be the best we can be!

There are many religious communities in the world, some estimates say there are over 4200 different religious communities in the world! Six of the largest religious communities in the world today are: Christianity, Islam, Judaism, Hinduism, Buddhism and Sikhism.

2. What unites and divides communities?

Communities can be divided for many reasons. In Northern Ireland, communities are divided because of politics and religion. The UK was and is divided between Brexiteers and Remainers. Families and friends can be divided because money, arguments, divorce etc. So, it is important to understand what strengthens communities and relationships, which can give us the important feeling that we belong. Different religions teach that we can unite communities by:

- Christianity teaches to ‘treat others the way you want to be treated’ in your community. This is referred to as the golden rule.
- Sikhism teaches that people should ‘serve and help others’ in the community.
- In Islam, the Prophet Muhammad taught ‘He is not a Muslim whose stomach is full while his neighbour goes hungry.’ This teaches that Muslims must help others in the community.
- In Buddhism, the Buddha taught ‘Silence the miser with generosity.’ This teaches the importance of giving to others.
- In Judaism the Torah teaches to ‘Love the stranger, treat him as a citizen.’ This teaches to help everyone in your community, not just those who are family or friends.
- In Hinduism it is taught that ‘worship to God is useless if you do not help the poor.’ This teaches that you how you act towards others in need in your community is a duty for all.

3. What rights and responsibilities do I have in my community?

A right is a moral entitlement to have or do something. A human right is a right that belongs to everyone e.g. the right to free speech or the right to an education. In many countries such as the UK these rights are part of the law. However, rights also come with responsibilities. The responsibility to ensure others have their rights and you treat others with respect and compassion. Different religious examples of your responsibilities are:

1. The Torah in Judaism says to honour and obey your parents.
2. The Christian Bible says to obey governments and to pay your taxes.
3. Islam teaches that the innocent should not be killed/ murdered/ harmed.
4. Hinduism, teaches duties such as honesty, not injuring living beings (ahimsa), mercy, patience, generosity etc.

4. What would a perfect community be like?

A perfect community is one where all people have a common goal, share common values and all feel a sense of belonging regardless of their race, gender, religion, or sexuality. This is called community cohesion. The perfect community is one that promotes fairness, everyone is treated equally and has the same opportunities. The government does many things to promote community cohesion in this country, for example they pass laws that means they can punish people who treat others differently such as the Equality Act of 2010.

5. Who is my neighbour?

Christianity teaches that a good community is based upon equality. Jesus told a story (parable) which demonstrates what equality means. This is called The Parable of the Good Samaritan. In the story a Jewish traveller is beaten up and robbed and left for dead on the road. A Jewish priest comes by, but deliberately avoids the man. A Jewish lawyer also comes by, but he too avoids the injured man. Finally, a Samaritan, a person from Samaria comes by. The Samaritans were hated by the Jewish people. However, he takes pity on the man. He cleans his wounds and takes him to an innkeeper, whom he asks to look after him. This parable ends with Jesus giving a commandment to go out and do the same as the Samaritan had done. Jesus is teaching people to love and help their enemies.



'You have heard that it was said, 'Love your friends hate your enemies.' But now I tell you: love your enemies and pray for those who persecute you.'
Jesus

6. What can we learn from religious communities?

Warrington is made up of different religious communities. In the 2011 census it recorded the religious make up of Warrington as 71.4% Christian, 20% no religion, 1% Muslim, 0.6% Hindu, 0.2% Buddhist, 0.2% Sikh and 0.1% Jewish.

Religious groups do many things to help their community such as running food banks and collecting money for charity. Religious buildings are also often used as a place for community meetings, youth clubs, coffee mornings and adult education classes. In Warrington examples of how different religions help the community are:

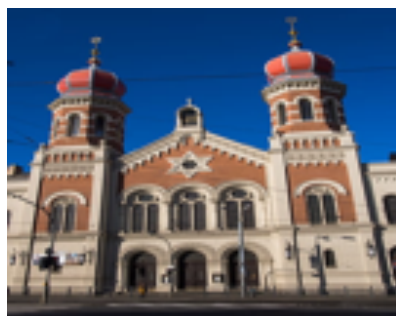
- The Salvation Army charity shop, Buttermarket Street, Warrington provides quality goods at very affordable prices to those in need.
- The Warrington Gurdwara (Sikh holy building) delivers projects to help children who are not engaging socially or older people to connect to with the wider community through activities and education.
- The Warrington Islamic Association use Bewsey Gym for many charity events.
- The Buddhist Meditation Centre on Fairfield Street Warrington help people Buddhist and non-Buddhist to gain personal experience of inner peace and happiness to encourage them to make a positive contribution to their community.

Key Terms	Definition	Contextual Sentence
Community	People living in the same place, or people who share the same interests or attitudes, or share the same lifestyle or beliefs etc.	We are part of the Great Sankey High School community.
Belonging	To feel happy or comfortable in a situation or group, a sense of fitting in or feeling like you are an important member of a group.	A shared sense of belonging is important for a peaceful community.
Citizen	An inhabitant of a particular town, city country; someone entitled to live in the country, city, town, area.	I am a citizen of Warrington.
Division	Difference or disagreement between two or more people, often leading to difficult situations.	Different political views can cause division in a community.
Unity	Being together or in agreement or at one with someone or something.	Living in unity is the key for a peaceful community.
Right	Something that we are entitled to and is often protected by law.	In the UK you have the right to an education.
Responsibility	Is a duty we have or something we ought to do.	We have a responsibility to treat others with respect.
Community Cohesion	A common vision and shared sense of belonging for a community.	The goal for all countries is to have community cohesion.
Equality	Ensuring individuals or groups of individuals are not treated differently.	At Great Sankey High School, we believe in equality.



Half Term Two
What are the key beliefs in Judaism?

1. How did Judaism begin?
2. Who was Moses?
3. How do Jewish people worship?
4. What is Shabbat?
5. What are kosher foods?
6. What are important festivals in Judaism?



1. How did Judaism begin?

Judaism began nearly 4,000 years ago in a place called the Middle East. This is a large area on the border of Asia, Africa and Europe. Abraham is referred to as the ‘father’ of Judaism. Abraham is the first person to teach the idea of one God. Before that people believed in many Gods. Prophet Abraham received a vision from God and is the first person to make a covenant with God. In this covenant God made a promise to look after the Jewish people as long as Abraham and his descendants remained faithful to God.

Abraham was a Hebrew. Jews believe God named Abraham’s grandson Israel. After this, the Hebrews became known as the Israelites.

2. Who was Moses?

Over a thousand years after Abraham, the Jews were living as slaves in Egypt. Their leader was a prophet called Moses. Moses led the Jewish people out of slavery in Egypt and led them to the Holy Land that God had promised them. This is remembered each year during Passover. The Jewish people were helped on their journey by God; the same God who’d promised Abraham that he would look after the Jews. God parted the Red Sea to help them escape and helped them in many other ways. When they reached Mount Sinai, in present day Egypt, God spoke to Moses high on the mountain slopes and made a covenant with the Jewish people that renewed the one he had made with Abraham. At the same time, God gave the Jewish people the Ten Commandments and Torah to live by.

3. How do Jewish people worship?

Jewish people worship in a synagogue. The synagogue is also where Jewish children go to learn Hebrew. The most important part of the synagogue is the Ark. This is a special cupboard always at the front of the main room where the scrolls are kept. In front of the Ark is a lamp called the Ner Tamid, otherwise known as the ‘Eternal Light’. It hangs above the ark in every synagogue and is a Symbol of God’s eternal and imminent presence.

For Jews, worship means praying to God and thanking him for the things he has done and asking for his help in their lives. As they enter a synagogue, Jews wash their hands as a symbol to make them fit for prayer and a sign of respect. Both men and women will usually cover their heads as a sign of respect. Men wear a skull cap which is called a kippah. Men will also wear a prayer robe called a tallit. It has tassels at the end to represent the 613 commandments given to Moses by God. In Orthodox synagogues, men wear two small black leather boxes with straps called tefillin. They contain small pieces of parchment which has short quotations from the scriptures written on it.

4. What is Shabbat?

Shabbat is the Hebrew word for Sabbath. It is the Jewish day of rest. It begins on sunset Friday evening and lasts until dusk on Saturday. On Shabbat Jewish people remember how God made the world in six days and rests on the seventh day. Jewish people now too rest on the seventh day which they believe is a Saturday. God commanded the Jewish people to observe the Sabbath and keep it holy as the fourth of the Ten Commandments.

The Sabbath is part of the deal between God and the Jewish People, so celebrating it is a reminder of the covenant and an occasion to rejoice in God’s kept promises. Shabbat is a time with no television, social media or a busy work schedule. Shabbat is very much a time when families come together in the presence of God in their own home.

Sabbath candles are lit at sunset on a Friday. The woman of the house usually performs this ritual. This marks the beginning of the Sabbath. After the candles are lit, Jewish families will drink wine. Sabbath wine is sweet and is usually drunk from a special goblet known as the Kiddush Cup. The drinking of wine on the Sabbath symbolises joy and celebration. It is also traditional to eat challah, a soft rich eggy bread in the shape of a braid. The end of Shabbat is marked by a ceremony called Havdalah.

5. What is kosher food?

Jewish people have laws about which foods may be eaten and how these foods should be prepared. Food which Jewish people are allowed to eat is called kosher. All plants are kosher, but not all fish and animals are. Food which Jewish people are not allowed to eat is called treyfah. The kosher food laws state that meat must not be eaten with dairy. Jewish people will have separate utensils for meat and dairy foods, and must wait a number of hours after eating one type of food before eating the other type. Animals whose meat may be eaten must be killed in a special, careful way by a religiously trained slaughterer. Jewish people can eat land animals that chew their cud and have a split hoof may be eaten. This includes livestock like cattle and sheep, but not pigs or camels. Fish must have fins and scales. Fish without scales like lobster and shrimp, and shellfish are forbidden.

6. What are important festivals in Judaism?

1) The Jewish festival of Rosh Hashanah occurs in September or October, depending on the lunar calendar that is followed by Jews. It is a time for Jews to reflect on their year, including their good deeds and their bad deeds.

2) Yom Kippur is the holiest day of the Jewish calendar. It is also called the Day of Atonement. Jews focus on asking God for forgiveness as it is believed that he will make his final judgement on the day of Yom Kippur sometime in the future.

3) Pesach is a festival held in March or April that celebrates the Jews' escape from slavery in Egypt. It lasts for seven to eight days and begins with the Seder, which consists of a service and a meal.

7. Key term	Definition	Contextual Sentence
Adonai	Name for God which means Lord.	Jewish people use the name Adonai for God.
Challah bread	Special bread for the Sabbath.	Challah bread is used during the Shabbat meal.
Covenant	Solemn agreement with God.	Abraham makes a covenant with God.
Eternal	Lasting forever.	Jewish people believe God is eternal.
Havdalah	Blessing which ends the Sabbath.	The father says the blessing called the Havdalah.
Hebrew	Jewish language.	The Torah is written in Hebrew.
Kiddush	Blessing which begins the Sabbath.	The father recites a blessing called a kiddush over a cup of wine.
Kippah	Skull cap.	Jewish men wear a kippah.
Kosher	'Fit' - food which Jews can eat.	Jewish people must eat kosher food.
Treyfah	Treyfah is food that is not fit to eat.	Meat from a pig is an example of food that is treyfah.
Leaven	Yeast, baking powder etc.	Jewish people observe the commandment to remove all leaven from their food.
Matzot	Unleavened bread.	Matzot are a reminder of the bread that did not rise.
Menorah	Seven branched candle stick.	The menorah candlestick has seven branches.
Pharaoh	King of Egypt.	After the plagues the Pharaoh agreed to release the Jewish people.
Prophet	Someone who tells people what God wants.	Abraham is an example of a prophet in Judaism.
Scrolls	Roll of parchment on which the Torah is written.	A Torah scroll is handwritten.
Seder	Special Passover meal.	The Seder meal follows a special order.
Shabbat	Jewish holy day.	The Shabbat begins on a Friday sunset.
Synagogue	Jewish place of worship.	The most important thing in a synagogue is the Ark.
Talmud	Collected teachings of the rabbis.	The Talmud is an important source of authority in Judaism.
Torah	The holy book of Judaism.	The Torah is the first five books of the Bible.

Topic: The Norman Conquest

Enquiry: How did the Normans conquer England?

Key events	
500BC	Celts arrive in Britain from central Europe.
43AD	The Romans invade Britain and have a massive impact on culture, landscape and language.
410AD	Once the Roman Empire fell, Anglo Saxons and Jutes from northern Germany and Denmark invaded and settled in Britain.
865AD	After years of raiding the coasts of the British Isles, Vikings started to settle in England and end up conquering large parts of the country.
1042	Anglo Saxon England becomes united under one monarch, Edward the Confessor.
January 1066	Harold Godwinson is crowned King by the Witan.
25th September 1066	Battle of Stamford Bridge
14th October 1066	Battle of Hastings

Key concepts	
Immigrants	People who come to live permanently in another country. People have settled in the British Isles from other countries for thousands of years, like the Beaker people, Celts and Saxons.
Invasion	Taking over a country or region with an armed force. This happened to Britain many times.
Monarchy	A type of government, where a king or queen rules the country.

Key words / terms	
Chronicle	These were records of events kept by monks. They wrote about a range of topics including religion, politics, history, towns, kings, gossip, and even the weather.
Earl	This was an important Saxon nobleman who ruled an area of England on behalf of the King. They were rich and powerful, and earldoms were passed on through families.
Ceorls	(pronounced 'churl'). This was the name given to ordinary villagers in Saxon England. The vast amount of the population in England would have been ceorls.
Witan	A group of advisers who helped the King run the country. Many members would have been earls from rich, powerful, landowning families.
Knights	Soldiers who were well trained and highly professional. They fought mounted on horseback. The weapon they were most likely to fight with was a sword.
Archers	Soldiers who used a bow and arrow to attack an army from a distance. William of Normandy used his archers well at the Battle of Hastings.
Housecarls	The best soldiers in the Saxon army. They were well paid, trained and armed with good weapons. They often fought with <u>battleaxes</u> .
Fyrd	Saxon foot soldiers. They were not as well trained or equipped as the housecarls, and many were armed with farming tools. However, there were a huge number of them.

Harold Godwinson, Earl of Wessex

Harold was a powerful and rich English nobleman. According to the Anglo-Saxon Chronicle, Edward named Godwinson as his successor on his deathbed. The next day, the royal council, known as the Witan, met and declared Godwinson king. An English king was proclaimed by the Witan - this gave Harold Godwinson the only claim to the throne by right.



Battle of Hastings

- Harold II marched quickly south, immediately after the Battle of Stamford Bridge. He left many of his foot soldiers behind and exhausted the others. Harold II arrived in Sussex after two weeks of constant marching.
- The two sides met at Senlac Hill, near Hastings. Harold II had gathered his men at the top of the hill and they protected their position using a wall of shields.
- The battle began in the morning with the Norman knights on foot firing arrows followed by those on horseback charging up the hill.
- The battle continued for two hours before a rumour suggested William had been killed. On hearing this news, one of the Norman soldiers began to flee because they thought William had been killed. William took off his helmet to show them he was still alive. Shouting 'Look at me! I am alive! And with God's help we will win!'.
- Swordman fighting axeman in a re-enactment of the Battle of Hastings. Re-enactment of the Battle of Hastings
- The next part of the battle was in the afternoon. A turning point in the battle was to occur. The Normans pretended to run away, then turned and cut down the Saxons when the inexperienced fyrd chased them. The Saxons had lost their main advantage: their control of the top of the hill.

Year 7- Half Term 2

Events of 1066



William, Duke of Normandy

The Norman chroniclers reported that Edward had promised his distant relative, William, the throne in 1051. William was the only blood relative of Edward, but the English throne was not hereditary anyway. Claims that Edward promised the throne were probably made up by the rival sides after the event. The Bayeux Tapestry, which was made after the Conquest, shows Godwinson swearing an oath of support to William in a visit to Normandy in 1064. William was supported by the Pope.

- William had a well-equipped army. He could now use them to his advantage. He had knights on horseback and archers with crossbows. Harold II had a traditional Saxon army – his housecarls fought on foot with axes and the fyrd were just farmers who fought with any weapons they could get. William's soldiers were fresh and full-time fighters. The Saxons stood no chance!
- William used archers to break up the Saxon shield wall. Arrows fell like rain on the Saxons, killing many of them in the process.
- In desperation, the housecarls formed a ring around their king. They failed to protect him however and Harold was killed - although exactly how he died, no-one can be sure of.
- Harold was killed. It is impossible to know how Harold II died. Most people believe that he was killed by an arrow in the eye. This theory is based on a scene in the Bayeux Tapestry. The tapestry has the words 'Harold is killed' next to a man with an arrow in his eye, but it is impossible to know which soldier is Harold II because all the Saxon soldiers are dressed identically.

Harald Hardrada, King of Norway, Viking warrior

Hardrada based his claim on the fact that his ancestor, King Cnut, had once ruled England (1016–1035). He was helped by Godwinson's half-brother, Tostig.

6.4- Battle of Stamford Bridge



After Harold Godwinson was crowned King Harold II, William and Harald Hardrada both made plans to invade England. Harold II assembled his bodyguards, known as the housecarls, and gathered an army of ordinary men, called the fyrd. He split the fyrd in two, sending some men to the south and some to the north. He sent a fleet of ships to the English Channel. Then they all waited. In September supplies had run out and Harold II had to send the fyrd back home to bring in the harvest. Hardrada invaded. He landed in Yorkshire and defeated the northern Saxon army at the Battle of Fulford. Harold II marched north quickly, gathering an army on his way. He took Harald by surprise and defeated him at the Battle of Stamford Bridge (25 September). Harald and Tostig, Godwinson's half-brother, were both killed. So many Vikings were killed that they only needed 24 longships to go home.

Topic: Medieval Religion

Enquiry: How religious were people in the Middle Ages?

Key events	
1096 – 1099 1st Crusade	The First Crusade. Jerusalem stays in Christian hands for 88 years afterwards.
1145 – 1149 2nd Crusade	In 1144, the Muslim armies began to unite and started to take some of the Holy Lands back from the Christians.
1189 – 1192 3rd Crusade	The Third Crusade. Saladin's forces recapture land held by the Christians.
1202 – 1204 4th Crusade	The Fourth Crusade. Pope Innocent III asks Christians to capture Jerusalem again. They fail.
1217 – 1250 5th, 6th and 7th Crusades	There were a series of other Crusades throughout the 1200s, which failed to recapture Jerusalem.
1396 Crusade of Nicopolis	Sometimes called 'the Last Crusade', this is a key turning point in the Crusades.

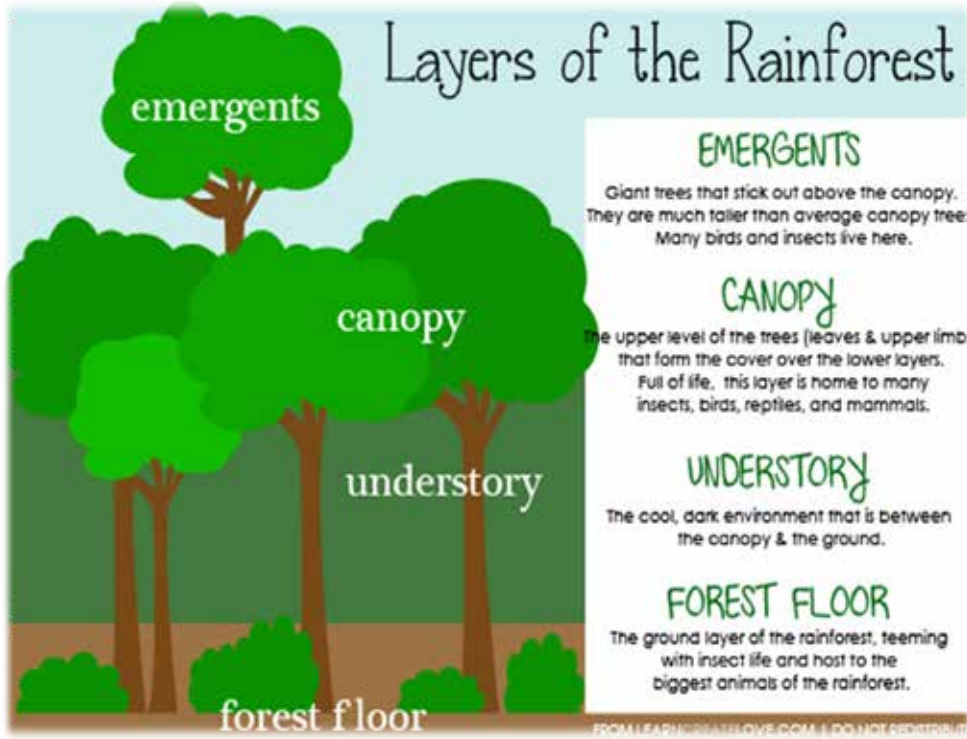
Key concepts	
Religion	A belief in a supernatural power, usually a god. Religion is a system of faith and worship.
Pilgrimage	A journey taken for religious reasons or a journey to a holy place.
Crusade	A series of wars in the Middle Ages fought by the Christians who wanted to take control of the Holy Land from the Muslim rulers.
Holy Land	A region in the Middle East that was, and still is, very important to major religions such as Islam, Judaism and Christianity.

Key words / terms	
Doom paintings	These were huge paintings on church walls depicting heaven and hell. They were designed to encourage people to want to go to heaven and to lead good lives to avoid going to hell.
Tithe	This was a tax placed on ordinary people by the Church. They had to give the Church 10% of everything they grew on their land.
Pope	This is the leader of the Roman Catholic Church. Therefore, in the Middle Ages when most Europeans were Catholic, the Pope was hugely powerful. The Pope is based in Rome.
Monk	A man who dedicated his life to religion and prayer, giving up all possessions and taking a vow to never marry.
Nun	A woman who dedicated her life to religion and prayer, giving up all possessions and taking a vow to never marry.
Religious community	Monks and nuns went to live in a religious community. Men would live in a monastery, and women would go to a nunnery. Other religious houses were abbeys or priories. Here, the nuns and monks would live, pray and work together and lead holy lives.
Novice	A monk or nun in training.
Roman Catholic	A Christian who follows the beliefs of the Catholic Church, based in Rome. The spiritual leader of the Roman Catholic Church is the Pope. Most people in Medieval Europe were Catholic.

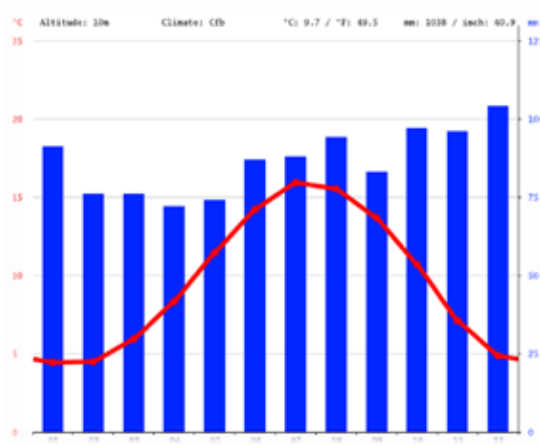
Topic: Medieval Religion

Enquiry: How religious were people in the Middle Ages?

First Crusade 1096-1099	Second Crusade 1145-1149	Third Crusade 1189-1192	Fourth Crusade 1202-1204	Children's Crusade 1212	5 th / 6 th / 7 th Crusades 1217-1250	Crusade of Nicopolis 1396
<p>An army of peasants, led by a man called Peter the Hermit, was the first group to set off for the Holy Land. They were nearly all killed. An army of knights followed led by Robert of Normandy, the eldest son of William the Conqueror. After many fierce, bloody, brutal battles they captured Jerusalem in 1099. It remained Christian for the next 88 years.</p>	<p>The knights of the First Crusade then swept through the Holy Land creating Christian Kingdoms and building castles. But in 1144, the Muslims began to take back land. King Louis VII of France set off to regain the land but was defeated in Damascus.</p>	<p>In 1174, the Muslims began to unite under- Salah ad-Din (known as Saladin). In 1187, his army recaptured Jerusalem and took other land controlled by Christians. The Crusaders (who included King Richard I of England) captured the town of Acre, but quarrelled amongst themselves and failed to capture Jerusalem. On 2nd September 1192, King Richard met with Saladin and made a deal- Jerusalem could remain in Muslim hands, but Christians could visit without coming to any harm.</p>	<p>The Pope (Innocent III) asked all Christians to capture Jerusalem once again. But the Crusaders never reached the Holy Land because different groups fell out with each other on the way. In the end Christians fought other Christians.</p>	<p>Some historical accounts say this Crusade was led by a 12 year old French shepherd boy named Stephen. Up to 30,000 children are said to have left for the Holy Land determined to succeed where the adults had failed. Tragically, many died from hunger and exhaustion on the way. Others returned home, but thousands were kidnapped and sold as slaves. However, no one knows what really happened, or which parts of the story are true.</p>	<p>All of these Crusades failed to retake Jerusalem and were unable to repeat the success of the First Crusade.</p>	<p>At the Battle of Nicopolis (in modern day Bulgaria) an army of French, Hungarian and German knights were defeated. This is sometimes called the Last Crusade.</p>



Layers of the Rainforest



Climate Graph of Brazil



Animals in the TRF



Map of Yellowstone National Park



Map of the Mojave Desert



Map of South America

Settlements

A settlement is a place where people live. Settlements can be as small as a single house in a remote area or as large as a mega city (a city with over 10 million residents).

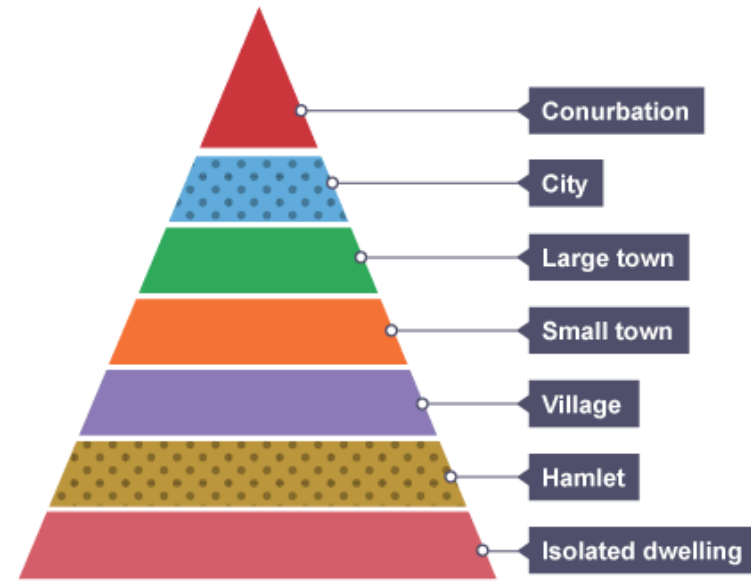
A settlement may be permanent or temporary. An example of a temporary settlement is a refugee camp. However, a temporary settlement may become permanent over time. This has happened to many refugee camps that have been built in conflict zones.



Terraced houses



Semi-detached houses



Settlement Hierarchy



-  Central Business District (CBD)
-  Factories / Industry
-  Working class housing
-  Middle class housing
-  Commuter zone

Land Use Model

Limitations of the Land Use Model

The model is now quite old and was developed before the advent of mass car ownership.

New working and housing trends have emerged since the model was developed. Many people now choose to live and work outside the city on the urban fringe - a phenomenon that is not reflected in the Burgess model.

Every city is different - there is no such thing as a typical city.

Salford Quay—Regeneration



Largest UK cities—Population

1. Queen Victoria opens Manchester Docks in 1894; the development expands until it covers a huge area of 120 acres, including over nine docks in Manchester, Salford and Stretford
2. The once mighty Manchester Docks close in 1982, resulting in 3,000 jobs losses.
3. Salford City Council purchases the land in 1984 using a Derelict Land Grant; one year later, the ambitious Salford Quays Development Plan is launched.
4. Between 1986 and 1990, the infrastructure of the docks is changed beyond recognition, featuring an internal waterway network with promenades, housing, offices and more built at Docks 6 and 7.
5. In 1987, after years of industrial pollution, water quality in the canals improves thanks to a new compressed air mixing system; 12,000 coarse fish are introduced to the area and thrive in their new home.
6. The idea for The Lowry – originally known as Salford Quays Centre For Performing Arts – is first conceived in 1988; twelve years later, it opens to the public.
7. Salford Quays is chosen as the site for the BBC's relocation in 2006, leading to the huge development of MediaCityUK by Peel.

Fantastic Places and Settlement Tier 3 Vocabulary

Key Vocabulary	Definition	Contextual Sentence
Human Geography	How humans interact with places and spaces: migration, population, employment, conflict and economic activity.	Human geography is my favourite!
Physical Geography	How natural processes shape the environment to make the features that we see around us: tectonic hazards, climatic hazards (floods, droughts), coasts, rivers, polar environments, glaciation, erosion and weathering.	I prefer physical geography because it explores the natural wonders of the world.
Environmental Geography	How humans have impacted upon the environment, usually in a negative way: climate change, air pollution, marine pollution and deforestation (chopping down of trees).	Environmental geography is really important to talk about.
Indigenous People	People who originate from a particular region or country who choose to remain living in their ancestral home.	Indigenous groups such as the Yanomamo and Kayapo have been living in the Amazon for thousands of years.
Favela	A Brazilian shack or shanty town; a slum.	Rapidly growing populations in the favelas leads to great socio-economic challenges.
Rural to Urban Migration	The movement of people from the countryside to a city.	Rural to urban migration is the main reason population is growing in cities.
National Park	An area of countryside protected by the state for the enjoyment of the general public or the preservation of wildlife.	Commercial exploitation of natural resources in a national park is illegal.
Settlement	A community in which people live.	Settlements can range from a small number of dwellings grouped together to the largest cities.
Megacity	A city with more than 10 million people.	Tokyo is the largest megacity in the world with 37.4 million inhabitants.
Central Business District	The main business and commercial area of a town or city.	The CBD is the main part of a city where most of its offices and stores are.
Terrace house	A house built as part of a continuous row in a uniform style.	My grandma lives in a terrace house.
Congestion	Overcrowding on roads causing traffic jams.	I get a congestion charge when I drive through cities.

Spanish: Knowledge Organiser Year 7 Term 1

Unit Of Work 1

1.1 El español global	Global Spanish	1.2 ¿Qué tal?	How are you?	1.3 Mi carnet de identidad	My ID card		
Argentina	Argentina	¿Cómo estás?	How are you?	0	cero 11	once 22	veintidós
Chile	Chile	bien	well	1	uno 12	doce 23	veintitrés
Colombia	Colombia	fantástico/a	fantastic	2	dos 13	trece 24	veinticuatro
Cuba	Cuba	fatal	awful	3	tres 14	catorce 25	veinticinco
España	Spain	fenomenal	great, excellent	4	cuatro 15	quince 26	veintiséis
Estados Unidos	United States	mal	bad/badly	5	cinco 16	dieciséis 27	veintisiete
Guinea Ecuatorial	Equatorial Guinea	regular	so-so	6	seis 17	diecisiete 28	veintiocho
la Isla de Pascua	Easter Island	¿Y tú?	And you?	7	siete 18	dieciocho 29	veintinueve
las Islas Baleares	Balearic Islands	¡hola!	Hello!	8	ocho 19	diecinueve 30	treinta
las Islas Canarias	Canary Islands	Buenos días	Good morning/ day	9	nueve 20	veinte 31	treinta y uno
las Islas Filipinas	Philippines	Buenas tardes	Good afternoon	10	diez 21	veintiuno	
Perú	Peru	¡Adiós!	Goodbye!	¿Cuántos años tienes? How old are you?			
República Dominicana	Dominican Republic	¡Hasta luego! /¡Hasta la vista!	See you later!	Tengo I have * Use this for age: Tengo 11 años (I am 11)			
¿De dónde eres?	Where are you from?	¿Cómo te llamas?	What are you called?	Tienes You have			
¿De dónde es?	Where is he/she from?	Me llamo	I am called	Tiene He / she/ it has			
la capital	capital	Te llamas	You are called	Nombre Name			
hispanohablante	Spanish-speaking	Se llama	He/ she / it is called	Apellido Surname			
el mundo	world			Edad Age			
el país	country						

1.4 ¡..y que cumplas muchos más!	And many happy returns!	el mes	the month	¿Cuándo es tu cumpleaños? When is your birthday?
el día	the day	enero	January	Mi cumpleaños es el (number) de (month) My birthday is ...
lunes	Monday	febrero	February	
martes	Tuesday	marzo	March	
miércoles	Wednesday	abril	April	
jueves	Thursday	mayo	May	
viernes	Friday	junio	June	
sábado	Saturday	julio	July	
domingo	Sunday	agosto	August	
		septiembre	September	
		octubre	October	
		noviembre	November	
		diciembre	December	
				el año
				el cumpleaños
				la fecha
				el primero
				el uno
				la semana
				year
				birthday
				date
				the first
				the first
				week

Spanish: Knowledge Organiser Year 7 Term 1

1.6 ¡Tod@s a clase! tengo... no tengo .. un bolígrafo un cuaderno un estuche una goma una hoja de papel un lápiz un libro una regla un sacapuntas unas tijeras	<i>In the classroom</i> <i>I have...</i> <i>I don't have...</i> <i>pen</i> <i>exercise book</i> <i>pencil case</i> <i>eraser</i> <i>sheet of paper</i> <i>pencil</i> <i>book/textbook</i> <i>ruler</i> <i>pencil sharpener</i> <i>scissors</i>	Gramática In Spanish all nouns are categorised into masculine and feminine. To say a... in Spanish there are 2 words: Un (masculine) Una (feminine) un libro (a book) una goma (a rubber/eraser)	Unit of work 1: key language in context	
			Greeting someone:	Hola. Buenos días.
			Asking someone's name and saying your name:	¿Cómo te llamas? Me llamo
			Asking how you spell a word:	¿Cómo se escribe.....? Se escribe ..P...A..B..L..O
			Asking someone's age and saying your age:	¿Cuántos años tienes? Tengo 11/12 años.
			Asking when is someone's birthday and saying when your birthday is:	¿Cuándo es tu cumpleaños? Mi cumpleaños es el <u>22</u> de <u>agosto</u> .
			Say which classroom objects you have/ don't have:	Tengo un cuaderno. No tengo (un) estuche.

Spanish: Knowledge Organiser Year 7 Term 1

Unit of work 2					
2.1 ¡Contamos hasta cien! el centímetro el kilómetro el largo medir (mido) el metro el número de teléfono treinta y dos treinta y tres treinta y cuatro treinta y cinco treinta y seis treinta y siete treinta y ocho treinta y nueve cuarenta cuarenta y uno cincuenta cincuenta y uno cincuenta y dos sesenta sesenta y uno setenta setenta y uno ochenta ochenta y uno noventa noventa y uno cien	Count to a hundred <i>centimetre</i> <i>kilometre</i> <i>length</i> <i>to measure</i> <i>(I measure)</i> <i>metre</i> <i>telephone number</i> 32 33 34 35 36 37 38 39 40 41 50 51 52 60 61 70 71 80 81 90 91 100	2.2 Te presento a mi familia la abuela la familia el abuelo los gemelos los abuelos divorciado/a la madre la edad la madrastra mayor el padre menor el padrastro los padres Soy la hermana la hermanastra el hermano el hermanastro los hermanos la hija única el hijo único la prima el primo la tía el tío se llama se llaman que se llama que se llaman	Introducing my family toyou <i>grandmother</i> <i>family</i> <i>grandfather</i> <i>twins</i> <i>grandparents</i> <i>divorced</i> <i>mother</i> <i>age</i> <i>stepmother</i> <i>older</i> <i>father</i> <i>younger</i> <i>stepfather</i> <i>parents</i> <i>I am</i> <i>sister</i> <i>stepsister</i> <i>brother</i> <i>stepbrother</i> <i>siblings</i> <i>only child (daughter) only</i> <i>child (son)</i> <i>cousin (female)</i> <i>cousin (male)</i> <i>aunt</i> <i>uncle</i> he/she is called they are called who is called who are called	2.3 Los animales y las mascotas un caballo una cobaya un conejo un gato un pájaro un perro un pez un ratón una serpiente de colores enorme feroz grande pequeño/a me gustaría tener no tengo animales tenía similar a	Animals and pets <i>horse</i> <i>guinea pig</i> <i>rabbit</i> <i>cat</i> <i>bird</i> <i>dog</i> <i>fish</i> <i>mouse</i> <i>snake</i> <i>colourful</i> <i>enormous</i> <i>ferocious</i> <i>big</i> <i>small</i> <i>I would like to have</i> <i>I don't have any pets</i> <i>I used to have</i> <i>similar to</i>
Gramática: ser = to be soy = I am somos = we are eres = you are sois = you all are es = he/she/it is son = they are				Gramática: tener = to have tengo = I have tenemos = we have tienes = you have tenéis = you all have tiene = he/she/it has tienen = they have	

Spanish: Knowledge Organiser Year 7 Term 1

1.5 Mis preferencias	My preferences	Unit 2: key language in context		
amarillo/a azul blanco/a claro/a gris marrón morado/a naranja negro/a oscuro/a rojo/a rosa verde detesto me encanta me gusta (mucho) mi color favorito es... no me gusta (nada) odio prefiero	yellow blue white light grey brown purple orange black dark red pink green I detest I love I like (a lot) My favourite colour is... I don't like (at all) I hate I prefer	Say your phone number:	Mi número de teléfono es: Cero, ochenta y dos, cuarenta y cinco Sesenta y siete, veintitrés, cero cuatro	<i>My phone number is: 0,82,4567,23,0 4</i>
		Say who's in your family:	En mi familia hay mi madre, mi padrastro y mis dos hermanos.	<i>In my family, there is my mum, stepdad and 2 siblings.</i>
		Say their names:	Mi hermano se llama Harry. Mis hermanastras se llaman Paula y Lola. Tengo una hermana que se llama Paige. Soy hijo/a único/ única.	<i>My brother is called Harry. My step-sisters are called Paula and Lola. I have a sister who is called Paige. I am an only child.</i>
		Say which colours you like or don't like:	Me gusta el rojo pero odio el verde.	<i>I like red but I hate green.</i>
		Say which animals you have or don't have:	Tengo dos perros y un gato. No tengo un caballo. No tengo animales pero ¡me gustaría tener una serpiente!	<i>I have 2 dogs and a cat. I haven't got a horse. I haven't got any animals but I would like to have a snake!</i>
		Describe your pets:	Mi perro es marrón y negro. Mi cobaya es blanca. Tengo un ratón gris y es muy feroz.	<i>My dog is brown and black. My guinea-pig is white. I have a grey mouse and it is very fierce.</i>
		Connectives	además o pero sin embargo también y	<i>furthermore or but however also and</i>

French: Knowledge Organiser Year 7 Term 1

Unit 1: Tout sur moi

<p>1.1 Le monde et moi</p> <p>Bonjour! Hello/good morning! Salut! Hi! Comment t'appelles-tu? What's your name? Je m'appelle ... My name is.. Où habites-tu? Where do you live? J'habite ... en I live in ...</p> <p>Connectives</p> <p>Et and Aussi also Mais but Cependant however</p>	<p>1.2 Quelle est la date ..?</p> <table border="0"> <tr> <td>0 zéro</td> <td>11 onze</td> <td>22 vingt-deux</td> </tr> <tr> <td>1 un</td> <td>12 douze</td> <td>23 vingt-trois</td> </tr> <tr> <td>2 deux</td> <td>13 treize</td> <td>24 vingt-quatre</td> </tr> <tr> <td>3 trois</td> <td>14 quatorze</td> <td>25 vingt-cinq</td> </tr> <tr> <td>4 quatre</td> <td>15 quinze</td> <td>26 vingt-six</td> </tr> <tr> <td>5 cinq</td> <td>16 seize</td> <td>27 vingt-sept</td> </tr> <tr> <td>6 six</td> <td>17 dix-sept</td> <td>28 vingt-huit</td> </tr> <tr> <td>7 sept</td> <td>18 dix-huit</td> <td>29 vingt-neuf</td> </tr> <tr> <td>8 huit</td> <td>19 dix-neuf</td> <td>30 trente</td> </tr> <tr> <td>9 neuf</td> <td>20 vingt</td> <td>31 trente et un</td> </tr> <tr> <td>10 dix</td> <td>21 vingt et un</td> <td></td> </tr> </table> <p>Quel âge as-tu? How old are you? J'ai... ans I am ... years old Et toi? And you? Quelle est la date de ton anniversaire? What date is your birthday? Mon anniversaire c'est le ... My birthday is the ..</p> <p>The months of the year : janvier, février, mars, avril, mai, juin, juillet, août, septembre, octobre, novembre, décembre</p> <p>Days of the week (Monday- Sunday) lundi, mardi, mercredi, jeudi, vendredi, samedi, dimanche</p>	0 zéro	11 onze	22 vingt-deux	1 un	12 douze	23 vingt-trois	2 deux	13 treize	24 vingt-quatre	3 trois	14 quatorze	25 vingt-cinq	4 quatre	15 quinze	26 vingt-six	5 cinq	16 seize	27 vingt-sept	6 six	17 dix-sept	28 vingt-huit	7 sept	18 dix-huit	29 vingt-neuf	8 huit	19 dix-neuf	30 trente	9 neuf	20 vingt	31 trente et un	10 dix	21 vingt et un		<p>1.3 Mon autoportrait</p> <table border="0"> <tr> <td>J'ai</td> <td>I have</td> </tr> <tr> <td>Tu as</td> <td>You have</td> </tr> <tr> <td>Il a</td> <td>He has</td> </tr> <tr> <td>Elle a</td> <td>She has</td> </tr> <tr> <td>On a ...</td> <td>We have</td> </tr> <tr> <td>Ils ont</td> <td>They have (boys and mixed gender)</td> </tr> <tr> <td>Elles ont</td> <td>They have (girls)</td> </tr> </table> <p>C'est It is</p> <table border="0"> <tr> <td>les yeux</td> <td>(colour)...eyes</td> </tr> <tr> <td>bleus/verts/</td> <td>Blue/green</td> </tr> <tr> <td>gris/marron/</td> <td>grey/ Brown</td> </tr> <tr> <td>noisette</td> <td>hazel</td> </tr> <tr> <td>bleu foncé</td> <td>Dark blue</td> </tr> <tr> <td>bleu clair</td> <td>Light blue</td> </tr> <tr> <td>...les cheveux</td> <td>(colour/style)...hair</td> </tr> <tr> <td>noirs/bruns/</td> <td>Black/ brown</td> </tr> <tr> <td>blonds/roux</td> <td>blonde/ red</td> </tr> <tr> <td>longs/courts/</td> <td>Long/ short</td> </tr> <tr> <td>mi-longs/raides/</td> <td>mid-length/ Straight</td> </tr> <tr> <td>nattés/bouclés</td> <td>braided/ wavy</td> </tr> </table> <table border="0"> <tr> <td>Je n'ai pas de cheveux.</td> <td>I have no hair</td> </tr> <tr> <td>Il/Elle n'a pas de cheveux.</td> <td>He/she/ has no hair</td> </tr> <tr> <td>On n'a pas de cheveux.</td> <td>We have no hair</td> </tr> </table>	J'ai	I have	Tu as	You have	Il a	He has	Elle a	She has	On a ...	We have	Ils ont	They have (boys and mixed gender)	Elles ont	They have (girls)	les yeux	(colour)...eyes	bleus/verts/	Blue/green	gris/marron/	grey/ Brown	noisette	hazel	bleu foncé	Dark blue	bleu clair	Light blue	...les cheveux	(colour/style)...hair	noirs/bruns/	Black/ brown	blonds/roux	blonde/ red	longs/courts/	Long/ short	mi-longs/raides/	mid-length/ Straight	nattés/bouclés	braided/ wavy	Je n'ai pas de cheveux.	I have no hair	Il/Elle n'a pas de cheveux.	He/she/ has no hair	On n'a pas de cheveux.	We have no hair
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UNIT OF WORK 1 KEY LANGUAGE IN CONTEXT

Asking someone's name and saying your name	Comment t'appelles-tu? Je m'appelle...
Asking someone's age and saying your age	Quel âge as-tu? J'ai <u>11/12</u> ans
Asking what date it is and saying the date	Quelle est la date? C'est le <u>2 octobre</u>
Asking someone's birthday and saying when your birthday is	Quelle est la date de ton anniversaire ? Mon anniversaire c'est le <u>2 octobre</u>
Describing your eye colour.	J'ai les yeux... <i>Example : J'ai les yeux bleus.</i>
Describing your hair.	J'ai les cheveux... <i>Example : J'ai les cheveux blondes.</i>

French: Knowledge Organiser Year 7 Term 1

Unit 2: Mon monde perso

2.1 Je suis quelqu'un de bien	2.2 C'est quoi une famille
<p>Tu es comment? What are you like? Je suis I am Tu es quelqu'un de/d'... Are you aperson? Je suis/Je ne suis pas I am/ I am not ..</p>	<p>mes grands-parents: my grandparents mon grand-père my grandfather ma grand-mère my grandmother mes parents: my parents: mon père my father mon beau-père my step-father ma mère my mother ma belle-mère my step-mother mon papa et ma maman my dad and my mum mon frère my brother mon demi-frère my half brother ma sœur my sister ma demi-sœur my half sister J'habite avec ... I live with Ma mère s'appelle My mum is called J'ai un frère/deux sœurs I have one brother/ two sisters qui s'appelle(nt) ... who are called Je n'ai pas de frères ou de sœurs. I have no brothers or sisters</p>
<p>actif (-ive) active adorable adorable amusant(e) funny bavard(e) chatty courageux (-euse) brave créatif (-ive) creative généreux(euse) generous gentil(le) nice, kind intelligent(e) intelligent paresseux (-euse) lazy sociable sociable sportif (-ive) sporty timide shy travailleur (-euse) hard-working très very un peu a little, a bit assez quite Merci (bien/beaucoup). Thank you (very much) Je t'en prie. You are welcome Pas de quoi. Don't mention it De rien You are welcome</p>	<p>Je suis fils/fille unique. I'm an only child Je n'ai plus de père/mère. I no longer have a dad/ mum Mes parents sont séparés/divorcés. My parents are separated/ divorced</p>

GRAMMAR :**What are verbs?**

Verbs are words that express doing, being or happening. In a dictionary you find verbs in the infinitive form. In English an infinitive verb starts with "to" e.g. to sing, to eat

The present tense - irregular verbs:

Some verbs don't follow the regular pattern and are called **irregular** verbs. **Être** (to be) and **avoir** (to have) are irregular verbs that you will use a lot, so learn them by heart.

<u>Avoir</u>	<u>to have</u>	<u>être</u>	<u>to be</u>
J'ai	I have	Je suis	I am
Tu as	You have	Tu es	You are
Il/elle a	He/she has	Il/elle est	He/she is
On a	We/they have	On est	We/they are

The present tense - regular verbs:

The present tense is used to talk about; What is happening now/What is usually done/ How things are. Many verbs are **regular**, this means, they follow the same pattern:

<u>habiter</u>	<u>to live</u>
j'habite	I live
tu habites	you live he/she
il/elle habite	lives

UNIT OF WORK 2 KEY LANGUAGE IN CONTEXT

Describing your personality	Je suis quelqu'un de généreux Je suis quelqu'un d'amusant Je suis gentil/le.	<i>I am a generous person. I am a funny person. I am kind.</i>
Saying who is in your family	J'ai deux sœurs et un demi-frère. Je n'ai pas de frères et sœurs. Je suis fille unique.	<i>I have two sisters and a step-brother. I don't have any brothers and sisters. I am an only child (girl)</i>
Saying who you live with	J'habite avec mes parents. J'habite avec ma grand-mère. J'habite avec ma belle-mère.	<i>I live with my parents. I live with my grandmother. I live with my step-mum.</i>
Saying what people are called	Il s'appelle Harry. Elle s'appelle Louise. Ils s'appellent Fred et Ben. Elles s'appellent Amy et Yasmina.	<i>He's called Harry. She is called Louise. They are called Fred and Ben. They (girls) are called Amy and Yasmina.</i>

