YEAR 8 - PROPORTIONAL REASONING... @whisto_maths Multiplying and Dividing Fractions

<u>What do I need to be able</u> <u>to do?</u>

<u>Keywords</u>



YEAR 8 - REPRESENTATIONS... <u> *Working in the Cartesian plane*</u>



By the end of this unit you should be able to:

- Label and identify lines parallel to the axes
- Recognise and use basic straight lines
- · Identify positive and negative gradients
- Link linear graphs to sequences
- Plot y = mx + c graphs

Keywords

- Quadrant: four quarters of the coordinate plane.
- Coordinate: a set of values that show an exact position.
- Horizontal: a straight line from left to right (parallel to the x axis)
- Vertical: a straight line from top to bottom (parallel to the y axis)
- Origin: (0,0) on a graph. The point the two axes cross
- Parallel: Lines that never meet
- Gradient: The steepness of a line
- I Intercept: Where lines cross



YEAR 8 - REPRESENTATIONS

Siblings = 21 siblings

Representing Data

@whisto maths



70ha

Year 8 Knowledge Organiser – Movement and Pressure

	Speed	11	An object	
1	Speed is how much distance is covered per unit time	12	An object acceleration	
2	Speed = Distance/Time	13	Acceleration	
3	The SI unit for speed is m/s		uncetion	
4	If an object is stationary its speed is 0 m/s	14	l A distance i	
5	Average speed is the overall distance divided by the overall time taken for a journey $Speed = \frac{Distance}{Time}$ $Time = \frac{Distance}{Speed}$ $Distance = Speed x Time$	14	70 60 60 50 \overline{E} 8 40	
6	Relative motion describes how different observers judge speed differently if they are in motion too		- 02 Distan	
7	If an observer is stationary, the relative motion of the moving object will be the same as its actual speed			
8	If an observer is travelling in the same direction as the moving object, the relative motion is the difference in their speeds and the object will seem to be moving more slowly			
9	If an observer is travelling in the opposite direction as the moving object, the relative motion is their speeds added together and the object will seem to be moving faster			
10	Acceleration describes how quickly a speed is changing (either speeding up or slowing down)	15	A horizont	



- A straight line represents an object moving at constant speed
- 17 The gradient of a distance-time graph represents speed
 - The steeper the gradient the greater the speed
- 19 A line returning to the x-axis represents an object returning to its starting position



Pressure					
21	Pressure is the force applied per unit area.				
22	Pressure (N/m ²) = Force (N)/ area (m ²)				
23	Pressure is increased by a smaller area and decreased by larger area				
24	Pressure is increased by a larger force and decreased by a smaller force p = F/A $F = p \times A$ A = F/p				

Year 9 Science Knowledge Organiser – Respiration & Photosynthesis

1 Aerobic Requiring oxygen. 15. Aerobic Respiration 18. The Left 2 Anaerobic Without oxygen. 18. The Left 3 Biodomes A self-contained and self-sufficient environment. - All living things respiration is to relase energy for organism to use. - All living things respiration is to relase energy for organism to use. - All living things respiration is to relase energy for organism to use. - Living things respiration is to relase energy for movement, keeping warm and for other chemical reactions to build molecules - All living things respiration is to relase energy for movement, keeping warm and for other chemical reactions to build molecules - All living things respiration is to relase energy for movement, keeping warm and for other chemical respiration is to use. - Living things respiration is to relase energy for movement, keeping warm and for other chemical reaction to so build molecules - Anaerobic respiration is to relase energy for movement, keeping warm and for other chemical reaction that gives out heat to consume the last to allow chemical energy through the proces of photosynthesis. - Maerobic respiration that to waygen? - All living things respiration is consumed out on the last contains out on the last to allow chemical energy through the proces of photosynthesis. - Anaerobic respiration is analyzen and relases more energy in the chemical reaction that separate in anaerobic respiration in ananas bic respiration in ananas bic respiration in ananas bic respiration in muscle cells caciases are build-up of lactic acid which results in an acrobic respiration in ananas bic r	Key Vocabulary:				Respiration		Photosynthesis
 Arelouic Meduning Oxygen. Anacrobic Without oxygen. Respiration is a chemical reaction that gives out heat (exothermic) All loing things need nergy for movement, keeping warm and for other chemical reactions to build molecules Aerobic means 'requiring oxygen' The movement of air into and out of mouth. Aerobic means 'requiring oxygen' The word equation for aerobic respiration is: Chiorophyli One among a group of pigments used to convert sunlight energy introg hythey have been of figure of eleves. Chiorophyli One among a group of pigments used to convert sunlight energy introg hythey have been of figure of eleves. Epidermis E pidermis is the outermost layer of figure respiration in succe cells causes a build-up of light conserving in an advise energy from outer of skin or leaves. Fermentation An anacrobic respiration in succe cells causes a build-up of light energy is released. Anacrobic respiration in muscle cells causes a build-up of light conserving in an advise to make break and alcoholic drinks is: Clucose -> lactic acid Anacrobic respiration in muscle cells causes a build-up of light conserving in an advigen and cleases more energy in an aerobic respiration in muscle cells causes a build-up of light constrains lis: Stepidermis is the outermost layer of arbohydrates known as simple sugars. Mitochondria Part of the cell where energy is released. Movement of water through a plant from where is absorbed at the roots to where it evaporates from stronata. Plants and agae make their own food using a process called photosynthesis. Clucose -> leatic acid drophotesis. Plants mad garma their substrain a mater carbohydrates in their leaves by where it evaporates from stronation is more and a chobic drinkes and water from roots to leas the oremong and close the sti	1	Aorohic	Poquiring overgon	15.	Aerobic Respiration	18.	, The Leaf
4 Breathing The movement of air into and out of the lungs through the nose and moth. organisms to use. organisms to use. 5 Chloroplast Organelle that contains the green pigment, chlorophyll, which absorbs light energy for photosynthesis. - Living things need energy for movement, keeping warm and for other chemical energy increase subject mays. 19 - Epidermis - thin and transparent to allow light to pass through leaf to get to chlorophyll. 6 Chlorophyll One among a group of pigments used to convert sunight energy in topotsynthesis. - Anaerobic respiration takes place without oxygen and releases nore energy than aerobic respiration is muscle ciscus es a build-up of lactic acid which results in an aerobic respiration in muscle ciscus es a build-up of lactic acid which results in an aerobic respiration in seas cuells causes a build-up of lactic acid which results in an aerobic respiration in seas cuells causes a build-up of lactic acid which results in an aerobic respiration in seas cuells causes a build-up of lactic acid which results in an aerobic respiration in seas cuells is called formentation and is used to make bread and alcoholic drinks - Naerobic respiration in invest cells is called formentation and is used to make bread and alcoholic drinks - Alerobic respiration is called formentation and is used to make bread and alcoholic drinks - Naerobic respiration is called formentation is: 9 Glucose One afor group of carbohydrates in the cells. - Anaerobic respiration in invest cells is called formentation is: <td>1 2 3</td> <td>Anaerobic Biodomes</td> <td>Without oxygen. A self-contained and self-sufficient environment.</td> <td>• • •</td> <td>Respiration is a chemical reaction that gives out heat (exothermic) All living things respire. Respiration is carried out in all cells continuously. The purpose of respiration is to release energy for</td> <td></td> <td>upper epidemia palasse</td>	1 2 3	Anaerobic Biodomes	Without oxygen. A self-contained and self-sufficient environment.	• • •	Respiration is a chemical reaction that gives out heat (exothermic) All living things respire. Respiration is carried out in all cells continuously. The purpose of respiration is to release energy for		upper epidemia palasse
 S Chloroplast Organelle that contains the green pigment, chlorophyll, which absorbs light energy for photosynthesis light energy for photosynthesis G Chlorophyll One among a group of pigments used to convert sunlight energy into chemical energy through the process of photosynthesis. 7 Epidermis Epidermis is the outermost layer of (skin or leaves). 8 Fermentation An anaerobic process in which energy into avagen is not available. 9 Glucose One a group of a group of a carbohydrates known as simple sugars 10 Lactic acid An acid present in muscle tissue as a product of anaerobic respiration. 11 Mitochondria Part of the cell where energy is released. 12 Oxygen Debt The volume of extra oxygen the body needs after exercise to react with the accumulated lactic acid an remove it from the cells. 13 Transpiration Movement of water through a plant from where is absorbed at the roots to where it evaporates from stored at the roots to where it evaporates from stored at the roots to the plants, and a green stepsire it evaporates from stored the respiration in the cells. 13 Transpiration Movement of water through a plant from where it exaporates from stored to any the reaction stores and the reaction where it evaporates from stored to the respiration to make bread and a protosynthesis. 14 Mitochondria Part of the cell where energy is a float scaled therown food using a process from the cells. 15 Photosynthesis and agree make the reaction dioxide are the reactions required for photosynthesis and water from where is absorbed at the roots to the photosynthesis. 16 Anaerobic respiration in suce cells accuese a build-up of lactic acid and remove it from the cells. 17 Photosynthesis. 18 Transpiration Movement of water through a plant from where is absorbed at the roots to the photosynthesis. 19 Plants and algae make their own fo	4	Breathing	The movement of air into and out of the lungs through the nose and mouth.	 organisms to use. Living things need energy for movement, keeping warm and for other chemical reactions to build molecules Aerobic means 'requiring oxygen' The word equation for aerobic respiration is: 			mesophy to option of the second secon
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 16. Anaerobic Respiration 17. Epidermis 18. Fermentation 19. Glucose 10. Lactic acid 11. Mitochondria 12. Oxygen Debt 13. Transpiration 13. Transpiration 13. Transpiration 14. Maerobic Respiration 15. Anaerobic Respiration 16. Anaerobic Respiration 17. Paisa and algae make their own food using a process called photosynthesis. 18. Pais and algae make their own food using a process called photosynthesis. 19. Plats and algae make their own food using a process called from the cells. 11. Mitochondria 12. Oxygen Debt 13. Transpiration 13. Transpiration 14. Movement of water through a plant from where is absorbed at the roots to where it exaporates from stomata. 16. Anaerobic Respiration 17. Plats and algae make their own food using a process called photosynthesis. 18. Plats mad carbon dioxide at the roots to where it exaporates from stomata. 19. Plats and algae make their own food using a process the energy in light for photosynthesis. 19. Plats make carbon/dyrates in their leaves by ophotosynthesis. 11. Plats and algae make their own food using a process the energy in light for photosynthesis. 11. Plats and algae make their own food using a process the energy in light for photosynthesis. 11. Plats and algae make their own food using a process the energy in light for photosynthesis. 11. Plats and algae make their own food using a process the energy in light for pho			light energy for photosynthesis	GIU		19	 Epidermis – thin and transparent to allow more light to pass through loaf to get to chloroplasts
 Pidermis Epidermis is the outermost layer of (skin or leaves). Fermentation An anaerobic process in which energy can be released from glucose even if oxygen is not available. An araerobic respiration in muscle cells causes a build-up of lactic acid which results in an oxygen debt An aerobic respiration in yeast cells is called fermentation and is used to make bread and alcoholic drinks An acrobic respiration in yeast cells is called fermentation is: Clucose → ethanol + carbon dioxide An acrobic respiration is: Clucose → ethanol + carbon dioxide An acrobic respiration is: Clucose → ethanol + carbon dioxide The word equation for fermentation is: Clucose → ethanol + carbon dioxide The volume of extra oxygen the body needs after exercise to react with the accumulated lactic acid and remove it from the cells. Plants and algae make their own food using a process called for photosynthesis. Light provides the energy needed for photosynthesis. Vater and carbon dioxide are the reactants required for photosynthesis. Plants and algae make carbohydrates in their leaves by where it evaporates from stomata. 	6	Chlorophyll	One among a group of pigments used to convert sunlight energy into chemical energy through the process of photosynthesis.	16. •	Anaerobic Respiration Anaerobic means 'without oxygen' Anaerobic respiration takes place without oxygen and releases less energy than aerobic respiration During intense exercise, if there is not enough oxygen	Iight Palis cont sunl Spor incre and Stor	 Palisade mesophyll - site of photosynthesis and contains lots of chloroplasts to absorb max sunlight Spongy mesophyll – contains lots of air spaces increase surface area and allow carbon dioxide
 8 Fermentation An anaerobic process in which energy can be released from glucose even if oxygen is not available. 9 Glucose One of a group of carbohydrates known as simple sugars 10 Lactic acid An acid present in muscle tissue as a product of anaerobic respiration. 11 Mitochondria Part of the cell where energy is released. 12 Oxygen Debt The volume of extra oxygen the body needs after exercise to react with the accumulated lactic acid and remove it from the cells. 13 Transpiration Movement of water through a plant for where it evaporates from stomata. An arobic respiration and sugar make carbohydrates in their leaves by opotosynthesis. Plants make carbohydrates in their leaves by opotosynthesis and water from mineral nutrients and water from mineral nutrients and water from the cells. Anaerobic respiration in muscle calls and solve deal and carbohydrates in their leaves by opotosynthesis and gain mineral nutrients and water from the cells. Anaerobic respiration in muscle calls is called formentation is: Clucose → ethanol + carboh dioxide are the reactants required for photosynthesis. Plants make carbohydrates in their leaves by ophotosynthesis and gain mineral nutrients and water from 	7	Epidermis	Epidermis is the outermost layer of (skin or leaves).	•	then anaerobic respiration takes place Aerobic respiration uses oxygen and releases more energy than anaerobic respiration		 and oxygen to diffuse easily Stomata – holes in the leaf to allow carbon
 9 Glucose One of a group of carbohydrates known as simple sugars 10 Lactic acid An acid present in muscle tissue as a product of anaerobic respiration. 11 Mitochondria Part of the cell where energy is released. 12 Oxygen Debt The volume of extra oxygen the body needs after exercise to react with the accumulated lactic acid and remove it from the cells. 13 Transpiration Movement of water through a plant from where it evaporates from stomata. 14 Transpiration Movement of water through a plant from where it evaporates from stomata. 	8	Fermentation	An anaerobic process in which energy can be released from glucose even if oxygen is not available.	•	Anaerobic respiration in muscle cells causes a build-up of lactic acid which results in an oxygen debt The word equation for anaerobic respiration in animals is:		 dioxide to diffuse in and oxygen to diffuse out Guard cells – to open and close the stomata to let substances in and out and to close it in order
 Lactic acid An acid present in muscle tissue as a product of anaerobic respiration. Mitochondria Part of the cell where energy is released. Anaerobic respiration in yeast cells is called fermentation is: The word equation for fermentation is: Glucose → ethanol + carbon dioxide Leaves are the primary site of photosynthesis in plant, from the cells. Transpiration Movement of water through a plant from where is absorbed at the roots to where it evaporates from stomata. Anaerobic respiration in yeast cells is called fermentation and is used to make bread and alcoholic drinks The word equation for fermentation is: Bucose → ethanol + carbon dioxide Leaves are the primary site of photosynthesis in plant. Plants and algae make their own food using a process called photosynthesis. Light provides the energy needed for photosynthesis Water and carbon dioxide are the reactants required for photosynthesis. Plants make carbohydrates in their leaves by photosynthesis. 	9	Glucose	One of a group of carbohydrates known as simple sugars		Glucose → lactic acid		to prevent water lossXylem - transport water from roots to leaves and
 Mitochondria Part of the cell where energy is released. Oxygen Debt The volume of extra oxygen the body needs after exercise to react with the accumulated lactic acid and remove it from the cells. Transpiration Movement of water through a plant from where is absorbed at the roots to where it evaporates from stomata. Transpiration 	10	Lactic acid	An acid present in muscle tissue as a product of anaerobic respiration.	•	Anaerobic respiration in yeast cells is called fermentation and is used to make bread and alcoholic drinks The word equation for fermentation is:		 the wall is strengthened with cellulose and lign Phloem - transport water and glucose in a two way system.
Image: Peleased. Peleased. • Leaves are the primary site of photosynthesis in plant somata. • Water leaves of photosynthesis in plant somata. • Water leaves of photosynthesis. • Water leaves of photosynthesis in plant somata. • Water leaves of photosynthesis. • Water and carbon dioxide are the reactants required for photosynthesis. • Water and carbon dioxide are the reactants required for photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrates in their leaves by photosynthesis. • Plants make carbohydrate	11	Mitochondria	Part of the cell where energy is	Ċ	Success \rightarrow ethanol + carbon dioxide	20	The Leaf
12 Oxygen Debt The volume of extra oxygen the body needs after exercise to react with the accumulated lactic acid and remove it from the cells. If Photosynthesis site of photosynthesis in plant stomata on underside of photosynthesis in plant. 13 Transpiration Movement of water through a plant from where is absorbed at the roots to where it evaporates from stomata. Plants make carbohydrates in their leaves by photosynthesis and gain mineral nutrients and water from Stomata on underside of photosynthesis.			released.	17			Leaves are the primary Water leaves the
13 Transpiration Movement of water through a plant from where is absorbed at the roots to where it evaporates from stomata. • Water and carbon dioxide are the reactants required for photosynthesis. • photosynthesis. • Plants make carbohydrates in their leaves by where it evaporates from stomata. • Plants make carbohydrates in their leaves by photosynthesis. • the energy in light for photosynthesis.	12	Oxygen Debt	The volume of extra oxygen the body needs after exercise to react with the accumulated lactic acid and remove it from the cells.	•	Photosynthesis Plants and algae make their own food using a process called photosynthesis. Light provides the energy needed for photosynthesis Water and arrhop diavida are the reactants required for		 site of photosynthesis in plant via the plants. Chloroplasts in plant cells contain a green leaves. Stomata on the stomata of the plants of plant via the stomata on the stomata of the plants of the plan
photosynthesis and gain mineral nutrients and water from photosynthesis.	13	Transpiration	Movement of water through a plant from where is absorbed at the roots to where it evaporates from stomata.	•	photosynthesis. Plants make carbohydrates in their leaves by		chlorophyll which uses the energy in light for
14StomataMicroscopic pores found on the epidermis of plants.Image: Comparison of the soil via their roots.Image: Comparison of the soil via their roots.Image: Comparison of the soil via their roots.14StomataStomataStomataImage: Comparison of the soil via their roots.Image: Comparison of the soil via their roots.14StomataStomataStomataImage: Comparison of the soil via their roots.Image: Comparison of the soil via their roots.14StomataStomataStomataImage: Comparison of the soil via their roots.Image: Comparison of the soil via their roots.14StomataStomataStomataImage: Comparison of the soil via their roots.Image: Comparison of the soil via their roots.15StomataStomataStomataImage: Comparison of the soil via their roots.Image: Comparison of the soil via their roots.16StomataStomataStomataImage: Comparison of the soil via th	14	Stomata	Microscopic pores found on the epidermis of plants.	•	photosynthesis and gain mineral nutrients and water from the soil via their roots. The products of photosynthesis are oxygen and glucose.		 Leaves have a number of adaptations which

photosynthesis effectively.

Year 8 ART HT1 Knowledge Organiser

Sonia Delaunay (1885-1979)

Sonia Delaunay was a French artist. She cofounded the Orphism art movement with her husband Robert Delaunay and others.

Her work in modern design included the concepts of geometric abstraction, and the mixing of furniture, fabrics, wall coverings, and clothing into her art.



Blending



Oil pastels are designed to have an oily texture across paper and can be easily blended.

If you are using oil pastels, remember to colour with dark colours first and then blending them with lighter colours, such as a white. Always blend from dark to light.

Consider colour theory; experiment with placing and blending harmonious colours together.



Pencils are graded to determine the hardness and the darkness of pencils. For example, a 6B pencil is soft and dark, whereas a 6H pencil is hard and light. 'H' stands for hard, 'B' stands for black.

The harder pencils can be used to create very precise lines, which are useful for detailed design work. Softer pencils are less good for detail as the marks they make tend to be thicker and less precise but are good for blending.

To create a successful piece of work, remember to create graduated tone by blending from light to dark. This can be achieved by varying your pencil pressure, or using the pencil on its side.

Keywords

Orphism – An abstract, cubist influenced painting style developed by Robert and Sonia Delaunay around 1912. Simultanism – This is Delaunay's technique, inspired by 'simultaneous contrast', in which colours look different depending on the colours around them.

Blending - The technique of gently intermingling two or more colours to create a gradual transition.

Multi-disciplinary – This is combining different artforms, and is often experimental.

Geometric abstraction - A form of abstract art made out of geometric shapes, such as triangles and circles.

Year 8 History Term 1 Knowledge Organiser: The Slave Trade

	<u>Key People</u>	SLAVERY	a system in which one human being is owned by	
John	British sailor and slave trader – sometimes called		another.	
Hawkins (1532-1595)	'the father of the slave trade'.	ENSLAVED PEOPLE	people who are owned by, and forced to work, for other people with no pay or rights.	
Toussaint L'Ouverture (1743-1803)	The leader the slave rebellion in Saint-Domingue. Defeated British and French troops and renamed the island Haiti.	CIVILISED	when humans are educated and refined, not impulsive or destructive.	
Olaudah	Former slave who campaigned to persuade	SAVAGE	wild, fierce, cruel and uneducated. Uncivilised.	
Equiano (1745-1797)	British people that the slave trade was wrong.	TRADE	the buying and selling of goods and services.	
Mary Prince (1788-1833)	Former slave who wrote her life story and campaigned for the end of slavery in Britain.	MIDDLE PASSAGE	the 6 and 8 week voyage of the slave ships from Africa to the Americas.	
William Wilberforce (1759-1833)	Member of Parliament who played a significant role in the abolition movement in Britain.	RAW MATERIALS	the basic material that is used to make other things. E.g. the cotton plant is the raw material of cotton cloth.	
	The Trade Triangle	INDUSTRY	businesses that transform raw materials into a product.	
	- 235 Comment	PLANTATION	a large farm that usually grows one specific crop to sell e.g. cotton.	
Log .		PROFIT	the amount of money made by a business that is more than the amount put in at the start or paid out as	



SAVAGE	wild, fierce, cruel and uneducated. Uncivilised.
TRADE	the buying and selling of goods and services.
MIDDLE PASSAGE	the 6 and 8 week voyage of the slave ships from Afri to the Americas.
raw Materials	the basic material that is used to make other things. the cotton plant is the raw material of cotton cloth.
INDUSTRY	businesses that transform raw materials into a produc
PLANTATION	a large farm that usually grows one specific crop to e.g. cotton.
PROFIT	the amount of money made by a business that is mo than the amount put in at the start or paid out as expenses.
ECONOMIC	related to money or trade.
RESISTANCE	to refuse to accept or join-in with something.
REBELLION	to fight against those in charge.
OPPOSITION	to disagree with something and act against it.
	to protivid of approximation way allow a low u
Aboenion	to get tid of something, usually a law.

TIMELINE OF THE SLAVE TRADE

1560 onwards. Britain was involved in the **Slave Trade**

1788 Manchester cotton workers signed a petition to end slavery.

1791 Enslaved people rebelled in Saint-Domingue.

1807 the British Parliament abolished the slave trade.

1833 Slavery was abolished in the British Empire.

1865 The end of the Civil War in the USA

Year 8 Drama HT2 Knowledge Organiser

Summary of topic

I will explore the theatrical genre of physical theatre. I will learn the origins of the style. I will explore modern texts such as 'Too Much Punch for Judy' by Mark Wheeller. I will also be introduced to Berkoff style of drama developing a performance piece to 'Metamorphosis'. I will develop strong movement skills, developing choral work working from text as a strong ensemble performer.

Aims of the topic

To explore the genre of physical theatre and develop its techniques and influence in Drama

Physical **Theatre Y8** Knowledge Organiser



Metamorphosis by Stephen Berkoff

Gregor Samsa has to look after his family as his father is too poorly to work. With the weight on his shoulders Gregor feels and the responsibility he symbolically turns into a beetle to protect himself.

DRAMA

Key Words



Physical Theatre Metamorphosis Genre









Assessment & Performance Tips The assessment is a group scripted piece using Berkoff text

- Face the audience at all times
- Speak loud and clear so everyone can hear you
- Try not to laugh and stay focused.
- Use a real range of movement skills.
- Use choral skills.
- Add emotion to your performance.

Year 8 Subject Term Knowledge Organiser: The World Wide Web

The Internet:

The internet is a worldwide network of computers. It is the physical hardware, i.e. the cables, the routers, and other pieces of hardware used to connect devices together.

Packets:

Networks send and receive messages in small units of data known as 'packets'.

A single message may be too large to fit in one packet. It is often split into many packets.

Each packet contains a part of the message, an address of where it came from, and an address of where it is going. These addresses are known as 'IP addresses', and they are unique.

IP Address:

An IP address is made up of 4 groups of numbers between 0 and 255, each separated by a full stop.

These are unique for every device on the internet.

Protocol:

A set of rules that must be followed.

Transmission Control Protocol:

Splits the messages sent across the internet into smaller pieces called 'packets'

Assembles the packets in the correct order at the receiver end

IP:

A protocol to route the packets. Each device on the internet has an IP address that uniquely identifies it from all other devices

The World Wide Web:

A collection of webpages found on the internet

Web Browser:

A piece of software (code) used to view information on the World Wide Web

Search Engine

A website that allows you to look up information on the World Wide Web.

HTML:

HTML stands for Hyper Text Markup Language and is the **standard markup** language for Web pages



Opening Tag	Closing Tag	Structure Specified
		Paragraph Text
<h1></h1>		Main heading
<h2></h2>		Sub heading
		Hyperlink
		List item
		Bulleted (unordered) list
<0 >	0	Numbered (ordered) list
	None	Image

Year 8 Subject Term Knowledge Organiser

Fitness

Knowledge

Develop an understanding of the benefits of fitness testing. When would you Fitness test, why would you Fitness test?

Skills

Understand the benefits of fitness testing e.g. Illinois Agility Test, Alternate hand wall toss test, Hand Grip Dynamometer test, Multi stage Fitness Test



Components of Fitness

Agility – Ability to change direction quickly and precisely without losing balance

Co-ordination – The ability of parts of the body to work together to move smoothly and accurately

Strength – Maximum force that can be generated by a muscle or group of muscles

Cardiovascular endurance - Ability of your heart and lungs to efficiently deliver oxygen to working muscles during exercise

Fitness

Knowledge

Develop an understanding of the benefits of Fitness Training Methods.

Skills

Understand the training methods that can be used to develop your fitness e.g. High Intensity Interval Training, Weight Training, Plyometric training, Flexibility Training



Key Words

Collaboration – The action of working with someone to produce something.

Analyse – Examine (something) methodically and in detail, typically in order to explain and interpret it.

Health – A state of physical, mental and social well being, not merely being absent from illness

Fitness – Fit for purpose or the ability to meet the demands of your environment

MFL Knowledge Organiser

1

KO. Yr 8 Jobs

	-	Tenses	-Present			Opinion	s & Pronouns	
Être = to be						Agréable	Regular	
Je suis			l am			Trés bien	mauvaise	
Tu es			You are				😫 🔗	
II/Elle est	t		He/She/It is			Bien		
Nous sommes			We are Col		Coni	nectives		
Vous êtes			You all are			• ,	Aussi = also	
Ils sont			They are			• Et= and		
REGULAR <u>P</u>		RESENT TI	ENSE		• • Pour	Mais = but tant = however		
		-ER	-IR	-RE		• Parce q	ue/ car = because	
Je		e	is	S				
Tu es II/Elle/On e Nous ons Vous ez		is	S					
		it			95			
		issons	ons					
		ez	issez	ez]	Lat 2		
lls/El	les	ent	issent	ent]			

Adjectives	
Actif/Active	Active
Interéssant	Interesting
Amusant	fun
Facile	Easy
Gratifiant	Gratifying (rewarding)
Barbant	Boring
Dificile	Difficult
Dur	Hard
Stressant	Stressful

Il aime = he likes Elle aime = she likes

Il travaille comme... = he works as... Elle travaille comme... = she works as...

Year 8 Subject Term Knowledge Organiser: Computing: Computer Systems

Embedded Computer

A computer system that is designed for a specific and dedicated purpose.

Personal Computer

A small computer with a microprocessor, designed for use by an individual.

Portable Computer

A computer designed to be easily moved from one place to another.

Super Computer:

An extremely powerful computer that operates at the fastest possible speed.

Artificial Intelligence:

The development of computer systems that can perform tasks that usually require human intelligence

Hardware

This is the physical parts of the computer which you can touch, for example monitors, keyboard, printers, wiring etc.

Software

This is the set of instructions for the computer to run a particular task or boot up, for example a word processor will be used to create documents and a virus checker can be used to check and clear viruses on the system

Input Devices

These are used to control the computer and are used to put data into the system. E.g. Keyboard and Mouse

Output Devices

These get something out of the computer for instance data or sound. E.g. Monitor, Speaker, Printer

Storage Devices

These are used to save data onto and can be inside the computer or portable so the data can be taken with the user.

Magnetic Storage Devices

These uses a magnetised surface area in order to hold bits of information. E.g.

- Fixed Hard Disk Drive
- Portable Hard Disc Drive
- Floppy Disc Drive

Optical Storage Devices

Optical Storage Devices use light sources to read/write data onto a disc. Data is stored using a series of dots that is read using the light.

- CD-ROM
- CD RW
- DVD ROM
- DVD-RW
- BlueRay

ROM - READ ONLY MEMORY

Can't be written over or added too. Can only be READ

RW - READ ONLY MEMORY

Can be written over and read

Solid State Memory

These have no moving parts e.g. no spinning discs or laser beams. E.g.

- Memory Stick/Pen
- Flash Memory Cards

A peripheral device

This is a computer component that is not part of the computer.

They are external devices and are attached to the outside of a computer

The Central Processing Unit

The CPU is often called the "**brains of the computer**." The purpose of the CPU is to process data. The CPU is where processes such as calculating, sorting and searching take place. Anything that is done on our computers, such as checking emails, playing games and doing homework, the CPU has processed the data we use.

ROM: Read Only Memory

Read-Only Memory can not be changed. This means it is also an example of **non volatile memory as it doesn't get deleted when the computer is switched off**.

A computer will have a ROM chip that usually stores the data the manufacturer has put on there. It contains all of the data to get a computer running

RAM: Random Access Memory

This is 'Short Term' memory of a computer which is very fast. It gets deleted when the computer is switched off and it contains the information the computer needs whilst it is running.

It is known as volatile memory as it can be changed.

Operating systems

These are pieces of software that manage everything that happens in your computer and they instruct the hardware on what to do.

The operating system makes your system useful. Without it your computer would sit there and do nothing.

Network

A **network** is where devices are connected together usually by cable or Wi-Fi. This could be a few computers in a room, many computers in a building or lots of computers across the world.

Type of Network	Description	Example
Local Area Network (LAN)	Connect computers over a building or a site.	School network
Wide Area Network (WAN)	Connect computers over a larger area such as a town, city or country.	The internet or a businesses that has locations all over the world

RE 8.1 Islam

Key terms Qur 'an - Holy book which gives Muslims instructions on how to live this life. Jihad - Struggle. Greater Jihad is the struggle to be a good Muslim, Lesser Jihad is the struggle to protect slam. Hajj - A special pilgrimage to Makkah Ramadan - The month in the Islamic calendar where Muslims will fast. slamic Relief - A charity run by the Muslim community Empathy - Understanding another person	Sunni and Shi'a After the Prophet Muhammad died some Muslims believed that his cousin Ali should be the next leader. These Muslims became Shi'a Muslims. Other Muslims believed that Muhammad's friend Abu Bakr should become the next leader - these are Sunni Muslims. Sunni and Shi'a Muslims share many of the same core beliefs, however some of the things that each group believes differ, as do some of the things each group does. The majority of Muslims are Sunni Muslims.	Jihad Greater jihad is a struggle to be a good Muslim, to struggle against unfairness in the world and to struggle against temptation and selfishness by following the teachings of Muhammad. Good examples include fasting during Ramadan, and saving money to help the poor. Lesser jihad is a struggle to defend Islam. Muslims nowadays believe that using violence to do this is unacceptable.
Unity - Oneness Zakat - Charity Ummah - the community Impact - the effect something has Salat - prayer Crucial Commands: Describe:Say in detail what something or someone is like, and the impact it has. E.g.	Hajj Hajj is pilgrimage to Makkah performed in the second week of the Islamic month of Dhul Hijjah. Muslims will visit sites of religious importance, and perform rituals to commemorate events in the lives of prophets such as Adam, Ibrahim and Ismail. <u>Hajj provides many benefits</u> - not only is it a great experience, but if performed properly Muslims may have their sins forgiven, feel close to God, and experience a great feeling of unity. Millions of Muslims attend each year.	Salat Muslims must perform five prayers a day. Sunni Muslims perform five separate sets of prayers while Shi'a Muslims combine their five prayers and perform them three times a day. <u>Prayer provides many benefits</u> - not only does it show dedication to God, it also strengthens the world-wide community of Muslims, and provides time for individuals to spend time not worrying about everyday life. Many Muslims feel refreshed after prayer.
Describe Hajj. Explain: Say why something or someone is important, and the impact it has. E.g. Explain why Zakat is important Discuss: Write about at least two points of view and explain why these points of view are valuable or not. E.g. ""Zakat is the most	Ramadan/Sawm Sawm is the Arabic word for fasting during the month of Ramadan and is one of the Five Pillars of Islam There are many spiritual <u>benefits</u> to fasting. Muslims feel a strong sense of community because all Muslims are fasting at the same time, and it helps them to consider and empathise with the	Zakat Each year, Muslims must give 2.5% of their wealth to charity. Muslims believe that their wealth is given to them by God and therefore they have a responsibility to share it with others who are less fortunate than themselves. Zakat has many benefits - it helps Muslims not to become greedy, it brings

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The Middle East knowledge organiser



Refugee movements from Syria

- Around 6 million refugees have now left Syria. 2.7 million are in Turkey and 1 million are in Jordan.
- Germany, Bulgaria and Sweden are the European countries that have accepted the most refugees from Syria.
- Only 3000 Syrian refugees have applied for asylum (safety) in the UK in comparison to 160,000 in Germany.

Middle East's physical geography

- The Middle East is a transcontinental region, located where Asia, Africa and Europe meet.
- This region is rich in oil
- There are two seasons. Winter and summer. Even winters are hot.
- The climate can be described as arid. There is little rainfall in the region.
- The northern countries receive the most rainfall including Turkey and Syria.

F) Key terms

- Refugee a person fleeing from war, persecution or natural disasters. They are protected by law. People have to prove they are a refugee if they want a safe country to accept them
- Asylum seeker someone who claims to be a refugee, looking for a safe place to live. But whose case has not yet been proven.
- Migrant A migrant is a person who moves from one place to another. Refugees are a type of migrant. Another type is an economic migrant. Someone who moves to another country for a job there. Refugees are very different to economic migrants.

Causes of war/conflict

- Economic gain (to take control of another country's wealth)
- Territorial gain (to take control of land)
- Nationalism (to prove your country is superior/better than another country)
- Civil war (fighting between different groups of people within the same country)
- Revolutionary war (when large numbers of people in a country tries to topple the government or leader of a country)



- 1- Many people in Syria had been unhappy with President Assad for a long time. There was high unemployment and corruption.
- 2- In 2011 15 school children were arrested for writing antigovernment graffiti on a wall. People were unhappy with this and so started to protest.
- 3- The government responded angrily opening fire and killing 4 protesters.
- 4- People demanded that the president resign. Fighting broke out between the president's supporters and those against the president (called rebels)
- 5- Russia and Iran became involved. Carrying out air strikes against cities held by rebel groups
- 6- The USA has shipped weapons to support the rebels
- 7- The UK and France carried out air strikes against government forces after they reportedly used chemical weapons against civilians (people not involved in the fighting)

Year 8 Subject Term Knowledge Organiser- PE orienteering

Skills and Techniques

Orienteering is a sport that require **navigational skills** using a **map and compass** to **navigate** from point to point in **diverse** and often unfamiliar **terrain** whilst moving at **speed**. Participants are given a **topographical map**, usually a specially prepared orienteering map, which they use to find **control points**.

<u>Running activities</u>: All lessons start with running activities to encourage pace and speed. Cardiovascular fitness is required over different types of terrain.

Observing surroundings: Look at your surroundings (playground/ cage/ grass areas/ tree) and identify key features that help you find your precise location. You need to observe your surroundings before looking for markings on a map.

<u>Orientating a Map.</u> You need to orientate your map (move it) to line up with the key features on the ground and check it is the correct way round to the direction you are facing.

<u>Directions:</u> - understand the Cardinal Markers – North, South, East and West and their relation to features on the ground and to places beyond the school site.

<u>Map Reading</u> – Recognise symbols on a map, be able to use a key to recognise symbols and colours on an orienteering map.

<u>Human features</u>: Know that a human feature is influenced by man (buildings, benches, fences, walls)

<u>Physical Features</u>: Know that a physical feature is natural (rivers, beaches, hills, forests)

Rules:

.Skills and technic	ques	
KEY: know the sy	mbols used in the key for the school	and
fields Maps		Orientee
tarmac		Cardiovasc
soft surfaces mown grass rough grass		Navigation,
new trees sand		Cardinal M
bushes pond	•	Compass,
garden out of bounds		Pictures
slope path		Oriente
aitch steps		
high fence		
tree root stock		
seat, post	H •	

Tactics

Glossary Location, ering, Speed, ular Fitness, Setting a Map, Diverse. Direction. Key, larkers, Terrain, Map, Control point, Thumbing eering flag Working as a team

The main aim of orienteering is to complete the set course by finding control markers in the correct order in the shortest time.

Although it Is based on accurate map reading it is also a test of physical fitness.

You must find all the controls you are told to visit and record them on your score sheet.

You have to consider the terrain you are moving over ensuring your safety and the safety of any team members at all times, taking into account the varying fitness level of all your team members.

If you are working in a team, you must share the responsibility of finding the controls and make sure that all members of your team have an opportunity to problem solve to find each of the controls.

Team work is necessary when you are completing an orienteering course with others. You must communicate and discuss each decision before navigating to the next control point. Mistakes can easily be made through poor communication.

All control marker are outside, you must not go inside the school building to cut through to find controls.

You and your team must find the controls yourself and not shout out control symbols to others

In order to be given a finish time for finding controls the whole team has to finish together

A key tactic to use is pace. You must make sure that you don't sprint off too quickly without orientating yourself and your map. You need to be able to keep a steady pace up all the way round the course.

You need to be able to orientate your map quickly by finding key features on the ground and then lining yourself and your map up to face the same direction

Each time you change direction whilst you are running you should change your grip on the map so that the map is reorientated and remains facing the same direction as the features on the ground.

Star exercises: In a start exercise you have to run out from a central start point to a control and remember the answer on the control marker, if you are in a team you should each remember a different answer if you have to run to more than on control marker.

Courses, sometimes you will be given more than one control to find at a time which makes up a course. You may do a different course to another team and as it's a race you should not shout out your answers.

Thumbing- to help you know where you are on the map, you mark your position with your thumb. As you move along the ground, you should move your thumb to your new position on the map.

Line features – you can use features on the ground to help you run towards the control marker, (e.g. edge of the cage/ line of trees / fence) so that you can run in the general direction towards a control and then be more precise in your navigation as you get closer to the control.



Year 8 PE Knowledge Organiser- Orienteering

The main aim of orienteering is to complete the set course by finding control markers in the correct order in the shortest time.

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MFL Knowledge Organiser

KO. Yr 8 Jobs

	<u>Tenses</u>	-Present	Opinions & Pronouns	
Ser = to be				Me gusta No me gusta
Soy		I am		Me gusta mucho No me gusta nada Me encanta
Eres		You are		Me chifla Odio
Es		He/She/It is		Me flipa
Somos		We are		Connectives
Sois		You all are		• También= also
Son		They are		• Y= and
Verbos Begulares	VERBOS -AR	VERBOS -ER	254WI2H VERBOS -IR	 Pero= but Sin embargo = however
Regulares	HABLAR	COMER	VIVIR	Porque = because
уо	hablo	como	vivo	
tú	hablas	comes	vives	
el / ella	habla	come	vive	
nosotros / as	hablamos	comemos	vivimos	7272011
vosotros / as	habláis	coméis	vivís	
ellos / ellas	hablan	comen	viven	
ustedes	hablan	comen	viven	

Adjectives				
Activo	Active			
Interesante	Interesting			
Estimulante	Stimulatiing			
Facil	Easy			
Gratificante	Gratifying (rewarding)			
Interesante	Interesting			
Aburrido	Boring			
Dificil	Difficult			
Duro	Hard			
Estresante	Stressful			

Le gusta = He/she likes Le encanta = He/she loves

Trabaja como... = he/ she works as... Trabaja en... = he/she works in

Year 8 Design Knowledge Organiser

Symmetry

Symmetrical design, or

symmetrical balance, is a

If you cut a symmetrical

amount of attention.

concept where both sides of

something mirror one another.

design in half, one side would

be identical to the other side.

When you create symmetrical

art, all areas attract an equal



CAD / CAM

CAD and CAM are a really important part of designing products and manufacturing them. They're used in lots of different industries from food packing to component manufacture.



CAD stands for computer aided design. It involves designing products on a computer rather than using a pencil or paper. CAD software packages allow you to make 2D or 3D designs.

CAM stands for computer aided manufacture. It's the process of manufacturing products with the help of computers.

Health and Safety





Recycle Products converted back into their basic materials and then remade into new products.



Repair Fix broken products another use for a product instead of throwing them away.

Reuse

Think of

before

throwing it

away.

Sustainability & The 6 R's

Refuse We should decide not to buy products actually need that harm the environment.

Rethink

Decide

whether you

that product

before you

buy it.

Reduce We should decrease the amount of finite materials that we use



Cardboard is a specially engineered material made from paper pulp. It can be strong, lightweight and versatile.

You might recognise the wavy shape of its distinctive fluting (or corrugation). This is often sandwiched between two layers of board.



It consists of integrating environmental protection criteria over a service or a product's lifecvcle.

The main goal of eco design is to anticipate and minimize negative environmental impacts (of manufacturing, using and disposing of products)

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Refugee Boy by Benjamin Zephaniah - Knowledge Organiser						
Inference: Using your own knowledge to work out what is being suggested in a text. Emotive language: Words used to influence readers' emotions.	First and third person narrative: The type of voice the text is written in. Pronoun: A word which replaces a noun.	 Analysing an Extract Write as succinctly as you can, without letting your point get lost in lots of wasteful words. Try to embed your quotations, choose the shortest, most precise phrase from the text as you can and try to let it flow naturally in the 				
Context: Information about the world and the time the text was written or set in.	Noun: A word which is a name of a person, place, or thing.	 paragraph you're writing. Zoom in to key words, particularly explaining connotations and th semantic field. Don't rely on knowing what the text means, focus instead on working out what the writer is implying. 				
Adjective: A word which is used to describe a noun.	Verb: An action or state of being.	 Analysing the Full Text Don't try to quote when you're writing about the full text, instead, 				
Adverb: A describing word for an action.	 Pathos: Using language to create pity or sadness. It's important you don't just find yourself retelling the storafter each event you describe, explain and infer what you describe. 					
Connotation: Links or associations we have with a word or phrase, what it makes you think of.	Ethos: The credibility of the writer or speaker of a text.	 Zephaniah was trying to imply or suggest. Remember the intentions of the writer, and what you think Zephaniah is trying to say about the issues faced by refugees and asylum seekers and, most importantly, why. <u>Creative Writing</u> You can control the mood and tone of your writing by choosing vocabulary with the right connotations. Imagery creates a powerful image in the reader's mind if you write in enough detail; consider what you can see (visual imagery), hear (auditory imagery), smell (olfactory imagery), taste (gustatory imagery), and touch (tactile imagery) Write a piece to match the purpose, audience and format. Create pathos using emotive language. Create ethos through the perspective your write in. 				
Logos: Using reason and judgement to persuade on your overall purpose.	Metaphor: A figure of speech or a thing which is symbolic of something else.					
Rhetoric: Language designed to be effective or persuasive writing or speaking.	Semantic field: A collection of words which are related to one another through similar meanings or abstract relation.					
Theme: An idea repeated within a text.	Symbolism: Use of symbols to represent ideas or qualities.					
Juxtaposition: Two or more things which are close together but contrast and/or opposite.	Message: A point that is being conveyed by the writer e.g. moral, social or political.	 Create logos through facts and statistics. Proof reading is a key skill; no writer publishes their first draft of anything! Check your punctuation, particularly capital letters and that your sentences are complete. 				

Year 8 Textiles Knowledge Organiser





Health & Safety

- 1. Needles are sharp. Keep fingers away.
- 2. Avoid distractions.
- 3. Switch off your sewing machine when you're away from it.
- 4. Be cautious of cords and foot pedal.
- 5. Avoid sewing over pins they can fly out and hurt you if the needle sews over them.
- Don't make your machine sew through thick or tough materials.



Step 6





Step 7



Velcro is a material consisting of two strips of nylon fabric which you press together to close things such as pockets and bags.

It is a type of hook and loop fastening.

Marbling



Marbling is a centuries-old technique that involves paint, adhesives or any dispersant and water to create unique patterns on fabric, paper or any object.

Paint is added to thickened water and allowed to float for some time. It is then swirled into designs and then transferred to the object.

Step 8



Check that your bobbin is inserted correctly (7). Turn the flywheel towards you so the needle hooks up the top thread with the bottom thread. The Sewing machine is now ready.

Threading a Sewing Machine



Step 1

Put the cotton on the spool at the top of the machine at (1). Pull the thread through the thread guide on the top at (2).



Step 2

Pull the thread down towards you and loop it around the tension discs below at (3). Then pull the thread back up again into the second thread guide (4).

Bring the thread down to the needle, following any hooks to hold the thread (5). Then thread the needle from the front to

the back (6).

(5)

(6)

1330

Step 3

Step 5

Year 8 Textiles Knowledge Organiser





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Year 8 MUSIC HT2 Knowledge Organiser - Live Sound

