

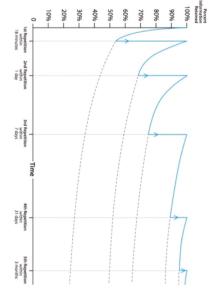


# **Knowledge Organisers**

successful in each subject. remember the core and powerful knowledge that is required to be building a seven-year revision strategy that supports you to by helping you to understand how to learn and revise. We are students achieve. We use knowledge Organisers at Christ the King to help all Knowledge Organisers improve your confidence

ensuring that knowledge is committed to long-term memory recall activities, known as retrieval practice, are an effective way of your limited working memory by storing key facts and processes in whereas long-term memory is effectively limitless. You can support memory is limited, and can very easily become overloaded involves working memory and long term memory; working lost over time if it is not revisited. A simple model for memory your long-term memory. Research evidence indicates that regular The Ebbinghaus Forgetting Curve demonstrates that knowledge <u>.</u>.

# Rate of Forgetting with Study/Repetition

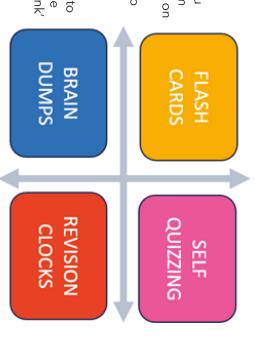


this highlight the essential 'golden knowledge' in yellow to support your learning. use your knowledge organiser in your lessons, in tutor time, and during homework tasks. An important aspect of your be given your knowledge organiser in a plastic wallet along with a homework booklet - the expectation is that you bring core knowledge is secured, you will be in a strong position to use and apply this knowledge in a range of contexts. You will revision for assessments and end-of-year examinations will be to use the knowledge organisers for self-quizzing. If this At the start of each term, you will receive a knowledge organiser booklet that contains content for all subject areas. You will to school every day - it should be placed on your desk in every lesson, ready to use. Geography and History

# How to use your Knowledge Organiser

The best way to use your knowledge organisers is to regularly use one of our Core 4 Revision strategies as part of your home learning. These strategies will be explained to you in more detail in tutor time, by your class teachers and as part of your Personal Development lessons.

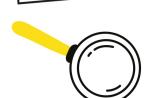
- 0 Flash Cards: Use the information from your knowledge organiser to create flashcards - these could be double sided with a question on one side and the answer on another, or a keyword on one side and the definition on the other.
- **O Self Quizzing:** There are different ways you can self-quiz:
- Look, cover, write, (say), check
- Create gaps fills
- Create questions for the information you want to learn and then answer them from memory
- 0 your memory. You then check the information against the information on writing down everything you can about a topic you want to revise from Brain dumps: These are a small but powerful revision strategy which that you know which information you need to revisit, either through your Knowledge Organiser - you then mark your work and add any good to use at the end of topics. An effective brain dump involves you using flash cards or self-quizzing. missing information onto your brain dump in a different colour pen, so memory, ready for you to recall it into your working memory. They are help makes the information 'sticky' so that it goes into your long-term
- 0 information linked to that. They are effective as they allow you to 'chunk' Revision Clocks: Revision Clocks are a blank clock shape - divided into up the core knowledge from the topic into the segments. You can use colours and pictures to make the information more 'sticky'. 12 segments. In each segment put a sub-heading and then include the



Children learn 4,000 to 12,000 words per year through reading,
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Reading for 6 minutes a day reduces stress by 68%.



Read 20 minutes a day and you'll read 1,800,000 words per year.

20 Minutes Per Subject <b>Subject 1</b>	Monday Science	<b>Tuesday</b> English	y Wednesday Find the second se	Thursday Maths (Sparx)	Friday Science
ubject 1	Science	English	English	Maths (Sparx	
Subject 2	RE	Maths	RE	Drama	۵ س
Subject 3	Music (Practical)	History	Technology / IT	MEL	

		We	Week 1		
20 Minutes Per Subject	Monday	Tuesday	Wednesday	Thursday	Friday
Subject 1	English	Science	Maths (Sparx)	Maths	English
Subject 2	RE	PE	RE	Science	Geography
Subject 3	Music	History	Technology / IT	MFL	Art

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You should complete at least one hour of Home Learning per school day.

**Homework Schedule** 

This will consist of:

0 0

Knowledge Organiser and Online Learning as directed by your teachers. If you have no tasks set, carry out Knowledge Organiser activities as per the Knowledge

0

Two periods of 20 minute reading each week.

Organiser timetable below.



# What are the homework expectations?

Each homework must meet the following 5 requirements:

- 0 Write the complete title and date in full e.g Wednesday 7th June 2023 on each page and underline
- 0 You should include minimum of words to summarise the topic. Do not copy the words from the text.
- 0 Make full use of the page for each topic by scaling your notes and images appropriately to use all the space
- 0 try to use humour. You must include diagrams, sketches, or cartoon doodles to visually represent the topic,
- 0 Highlight key words and phrases, using underlines and highlighter pens, and explain technical terms.

# How should I present my work?

ruler and you should present your work as neatly as you are able to. Please remember that the same rules apply to the presentation of your homework as applies for your class work: **dates and titles** (which should be the name of the subject) **need to be underlined with a** 

examples of how to set out your work: If you are self-quizzing correctly, there should be evidence of green pen on your page. Here are some





# DON'T FORGET!

Always record the date, topic, and page number in your Home Learning Book!



Keywords	Definition		<sup>1</sup> SHEPARD FAIREY ARTIST				
Complimentary colours	Two colours which are opposite of wheel which can create a contrast		WHAT? Frank Shepard Fairey is an American 'street artist' born in 1970. He is mo famous for a design he did of the then USA President Barack Obama, who used the				
Street Art	This term describes artworks which be seen in public places, often out include murals, sculptures, photog	doors. These artworks may	image as part of hi WHY? Shepard Fai	s election campaign in 2008. irey's artwork is influenced by popular culture, especially his love of sic, film and skateboarding. His early work depicted portrait images of			
Portraiture	Is an artwork, often of a person's f created by using any type of medic photograph, sculpture etc.	•	his heroes which w buildings where he	vere made into posters. These were sometimes pasted onto walls and e lived in South Carolina.			
Medium	The material used to create a piece	e of artwork.	-	irey is <mark>most</mark> famo <mark>us</mark> for using stencils and spray <mark>paint to c</mark> reate ften uses bold flat colours which represent different tones of the face.			
Religious Icon	Is usually a portrait painting which and Jesus.	represents saints	He also can create	further layers to his work by adding collages, pain <mark>ts</mark> and drawings.			
2. Formal Elements	Definition	Visual	3. Processes	Definition			
Colour Theory	Colour theory is the study of how colours work together and how they affect our emotions and perceptions. It helps artists, designers, and creators to help	Description Descr	Colour mixing	This term applies to mixing two or more colours together to create a new colour or tone.			
	them choose the right colours for their projects.	Purple	Collage	Is the technique and the resulting work of art in which pieces of paper, photographs, fabric and other materials are arranged and			
Pattern	A pattern is created by repeating one design element. This can be			stuck down onto a surface.			
	a mark, line, shape or a colour.		Monoprint	Is a 'one off' print which uses mark making and ink to create an image.			
Tone	In painting, tone can describe the relative lightness or darkness of a colour.		Grid method	Is a technique using grids which create accurate drawings which are copied from a refence image.			



1	Key terms	3		Modelling Tools & Equipment	
Anthropometrics	The <b>study of the human body</b> and its movement, often involving <b>research into measurements</b> relating to people. It also involves collecting	Craft Knife	blade is	e bladed knife that easily cuts through a variety of different materials. The retractable so and can be snapped off to reveal a new blade, once the old comes blunt.	
Anthrop	statistics or measurements of the human body that can then be used to design products and environments that <b>fit</b> the users.	Cutting Board	creating	aling cutting mats are purpose-built to be extremely durable and resilient, g the perfect cutting surface that reduces blunting but also ensures any rface is well protected from damage.	λ3
Ergonomics	Defined as the science of fitting a workplace to the user's needs, <i>ergonomics</i> aims to increase how comfortable, efficient and easy a product is to use.	Metal Rule	fingers	afety Rule's features a unique M profile which allows you <b>to keep your</b> well away from any knife edge when used for cutting or scoring. They are rom metal to prevent the rule being damaged by the blade of a craft knife.	The second second
Triangulation	Triangulation involves the use of triangular shapes to give stability to structures.	Glue Gun	the noz	p and melts hot glue sticks. Once melted, the glue is then directed out of zle of the gun. The nozzle can get very hot, so it is important to follow ules to ensure that you don't burn yourself. Any burns should be reported	
Crating	Using sketched 3D cubes/ cuboids to help structure more complex drawings.		straight		
Mood board	An arrangement of images, materials, pieces of text, colours, textures etc. Intended to embody or project a particular style or theme.		Aljoud Lootah	Aljoud's designs focus on the idea of contrasts in form and function while distinctly interpreting the Emirati culture through contemporary design. Her creative drive comes from a passion for detail and experimental approaches to materials and aesthetics.	R
Scale	A method used to enlarge or reduce the actual size of a drawing of model whilst keeping proportions the same.	Philipp Starck	The second second	Stark has produced designs for large companies such as Alessi, Puma and Microsoft. He is interested in bright colours, unusual shapes and materials. He wants his designs to be mass produced and relatively affordable, but he also wants them to be durable.	A
	Designers and prence of le of a in height to suit most of their target market.	Morag Mye		Known globally for creating installations and immersive public artworks that transform places and champion community. Her work is instantly recognisable, combining geometric patterns with bold shapes and hand painted type, it aims to bring joy to all those who encounter it.	
	th S0th percentile 95th entile Average (mean) percentile	Ettore Sottsas		Ettore was an Italian architect and designer, he brought bold colors, unconventional shapes and an innovative contemporary style to everyday items, creating iconic postmodern furniture pieces that shaped the history of the <u>Memphis movement</u> .	

### **Design & Technology - Design and Make**

The Stages of the	Design Process
Problem	The main purpose of developing a new product is to solve a problem, this solves either a need or a want. It is important to investigate problems before you start designing.
Design brief	A design brief is a statement of intent that addresses how the product will solve the identified problem and satisfy the need or want. It normal considers; budget, function, target market, aesthetics and timescale.
Research	Market research and analysis is performed to help the designer fully understand and identify issues. This may involve looking at existing products, speaking to users, making observations and completing site visits.
Specification	This is shaped through the results of research. It is a list of SPECIFIC requirements that are measurable. It is used to test the product to assess success throughout.
Design ideas	These are produced by the designer by hand or using computer aided design (CAD). They are used to develop and communicate solutions to the identified problem.
Development	Designers often used the iterative process to model and test the design ideas against the specification, continually making improvements to get to the best solution.
Prototype Manufacture	A prototype is an pre-production working model of a product, that is used to test the concept. The prototypes are usually manufactured using the same processes to ensure that the product meets expectations.
<b>Evaluation</b> Prototypes must go though rigorous testing and analysis to ensure they are safe, fit for purpose and meet the design brief and specification. Any issues that are found, need to be resolved before the product can go into production.	
Material Propertie	 2S
Corrugated card	Two or more layers of card with a fluted layer in-between to add strength.
Foam core board	Two thin layers of card with a foam inner core in between.

**Iterative design** is the repeated process of prototyping a design, testing it, collecting feedback, evaluating the design and making improvements based on results. The process is repeated until the final design is ready to be produced.

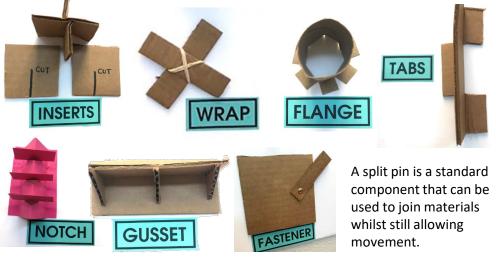


**Scale** A scale drawing is an enlarged or reduced drawing that is proportional to the original object. This means that all of the ratios between the corresponding sides of the original figure and the drawing are equal. Scale drawings are used by architects, clothing designers, and map makers among others.

2:1	The drawing is twice the size of the actual object.
1:1	The drawing is to actual size.
1:2	The drawing is half the size of the actual object.

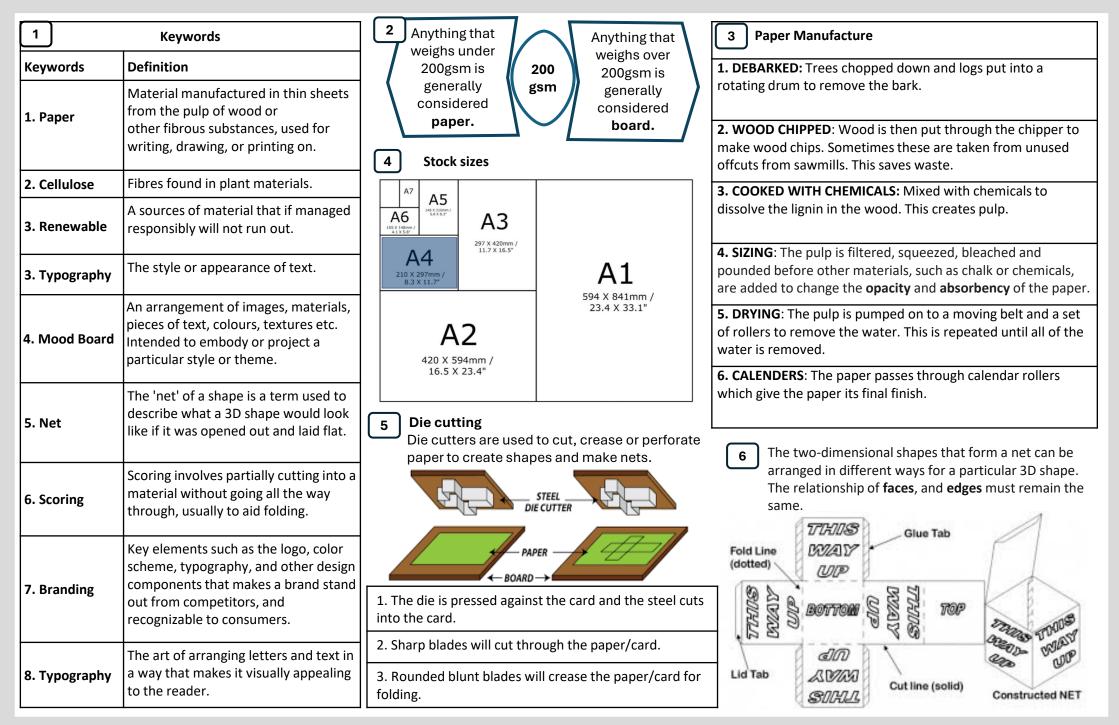
### Attachment techniques

These are different ways to attach and join card together





### **Design & Technology - Paper and Board**





### **Design & Technology - Timbers / Phone Holder**

1 Keywords		2	Тоо	ols		4 Scots Pine - softwood			
Keywords	<b>Definition</b> The term used to describe the process of removing material when manufacturing. This can be through drilling, sawing, filling	Marking Gauge		Mark out lines by running it along an edge and using the pin to mark a line into the material.	ii • S • F	asy to work with, re ghtweight. traight grain with lo ale to reddish brow s: furniture, constru	n.		
	or cutting.			Used for marking out	5				
2. Template	A shaped piece of rigid material that is used to draw or cut around to interease	Try Square		and checking 90° angles on wood, metal or plastic.	5	FELLING	nverting a tree to timber The trees are chopped down in to		
	accuracy. They can also be used when shaping or drilling.			A saw used for cutting	Tra	ansport to sawmill logs and taken to the sawmill.			
	The term used to describe the process of	Tenon Saw		wood. Its flat blade makes it good for		DEBARKING The bark is removed from logs. The bark is used for			
3. Finishing	adding a 'finish' such as paint, varnish, wax or stain to a material for functional or aesthetic reasons.			cutting straight lines. A machine that rotates		Sawing - CONVERSION	The wood is converted into different stock form sizes.		
	Quality control is when your check the			a belt of sandpaper at high speeds. Used to neaten up edges of	So	Sorting & stacking The timber is sorted to ensure a			
4. Quality control	quality of a product against a set standard or specification. Products will often have a tolerance of how accurate they need to be.	Coping		wood. A saw used to cut wood and plastic. Its thin	Dry	ing - SEASONING	The timber is then dried using air or a kiln to remove 9-14% of the moisture.		
3	3 Woods TIMBER		Al more	blade makes it ideal for cutting curved lines.		Oil – Soaks into the penetrates the woo			
	A natural renewable resource		A natural renewable resource		sharp edge. Som	Is a cutting tool with a sharp edge. Sometimes used with a mallet to	protection and resista		me water
Dec	HardwoodsSoftwoodsDeciduousConiferousLoose leavesEvergreen			run along the surface off wood and remove shavings.	Wax – a think layer is applied with a soft cloth and pushed in to the wood. It enhances colour and gives a shine.		in to the wood.		
	e of the year Grows all year round er together Rings further apart			An abrasive paper used to smooth the surface		It protects wood fro			
Oak, As	30 - 40 years to growsh, BeechPine, Cedar, Douglas FirnitureBuildings	Sand Paper		of wood. It comes in a range of 'grit sizes' which range from rough to very fine.		in – Permanently st olour can be affecte wood. It does no	d by the base		



### **Design & Technology - Torch Project**

Key Word	Definition	Electronic Components				
1. CAD (Computer Aided Design)	Using a computer program to produce computer models/ designs.	Component	Job	Image	Symbol	
2. CAM (Computer Aided Manufacture)	Machines that are controlled by computer software to determine movement and power.	LED (Light Emitting Diode)	LED stands for Light Emitting Diode. LEDs are like normal diodes, in that they only allow			
3. Laser Cutter	An example of a CAM machine. A laser cuts through or etches onto a chosen material.		current to flow in one direction, however, when the current is flowing, the LED lights up.			
4. Etching	Using the laser cutter to etch/ burn the surface of a material and draw a design.	Resistor	A resistor is a device that opposes the flow of electrical current. The			
5. Solder	Solder is a metal alloy usually made of tin and lead which is melted using a hot iron. It is used to join electronic components to a circuit board.		bigger the value of a resistor, the more it opposes the current flow. The value of a resistor is given in			
6. 2D Design	The CAD software used to design models and control the laser cutter.		$\Omega$ (ohms) and is often referred to as its 'resistance'.			
7. MDF (Medium Density Fibreboard)	It is a manufactured board that is made by pressing wood fibres pressed together using glue and heat.	Switch	A device used to interrupt the flow of electrons in a circuit. They are usually on or off.			
Schematic diagrams use s systems. A circuit diagram is a sche how components are conn		USB Connector	Allows a circuit to connect to a USB port, charging the capacitor.		•	
CN1 Diode	D1 BAT41 + C The 2 capacitors in series have combined voltage	Capacitor	A capacitor is a component that can store electrical charge (electricity). In many ways, it is like a rechargeable battery.		[]	
USB connector	the logical order of an input, a process and an output	Diode	Diodes let current flow in one direction, but stop it from flowing in the other. They are like a one way valve.	A	- <del> </del> -	
to plan the function of a	•	Circuit Board	A thin rigid board containing an electric circuit; a printed circuit.			

### Drama - Demon Barber

**CHRIST THE KING -** Knowledge Organisers

WHAT AM WHAT DO I I DOING NEED TO DO **TO IMPROVE** WELL **Rehearsal techniques** 

> Tools to help us explore the script and better understand our character

C..... A... helps us to consider all of the different emotions a character might be feeling.

Returns to London seeking revenge for the loss of his wife

and daughter.

A barber who was wrongly sent to Australia on a prison ship by an evil Judge.

Moves in to his old flat which is above a pork pie shop.

What you need to know about SWEENEY TODD

H.S. allows the character to be interrogated about their motives and decisions.

WHAT CLUES ARE THERE IN THE

SCRIPT THAT SHOW ME HOW

TO PLAY MY CHARACTER

R.O.T.W. helps us to figure

out what we know about a character and what we still need to find out.

The pie shop is owned by Mrs Lovett who is in love with Mr Todd. They plot revenge together.

A very charming

man who manipulates those around him to get what he wants.

### **Key words CHARACTERISATION**

Using a range of physical and vocal skills to show a character who is different to you.

### BACKGROUND

Your character's past life experiences- where they come from, their upbringing, how they have been treated.

### REHEARSAL

Working together in a group to practice a part of the script and share ideas about how it should be perfromed.

### ACCENT

The way a person speaks- can show where they are from and sometimes class or status.

### TONE

The emotion behind what your character says e.g. an angry tone, a surprised tone.

### **FACIAL EXPRESSION**

Showing emotion through your face- eyes, mouth, eyebrows...

### PACE

YEAR 8

The speed at which your character speaks or moves.

THE DEMON BARBER

### **STANCE**

The way a person stands.

### GAIT

The way your character walksdo they have a narrow gait or a wide gait?

### POSTURE

The position in which someone holds their body when they sit or stand- can give us clues to their personality.

### **GESTURES**

Using your hands (or sometimes eyes and head) to communicate meaning with other characters and the audience e.g. pointing/winking.

### PITCH

How high or low your character's voice is.

### **BODY LANGUAGE**

Showing emotion through the way you sit, stand or position yourself.

Homework: Research Victorian London. What was life like for ordinary people? Why might Sweeney be so angry? Extension: Design the set for a production of The Demon Barber. Think about how you will create the trap door.



WHAT AM

I DOING

WELL

# YEAR 8 SILENT FILM

### characterisation

WHAT DO I

NEED TO DO

TO IMPROVE

The act of changing [physicality] when in role

Why are clear characters important in mime? What are the challenges in achieving this? Why do they need to have clear relationships with the other characters?

## What are the physical characteristics of... The heroine? The hero? The Villian?



# **Physical skills**

### STANCE

The way a person stands.

### GAIT

HOW AM I

MEANING

COMMUNICATING

The way your character walksdo they have a narrow gait or a wide gait?

### POSTURE

The position in which someone holds their body when they sit or stand- can give us clues to their personality.

### GESTURES

Using your hands (or sometimes eyes and head) to communicate meaning with other characters and the audience e.g. pointing/winking.

### **BODY LANGUAGE**

Showing emotion through the way you sit, stand or position yourself.

### FACIAL EXPRESSION

Showing emotion through your face- eyes, mouth, eyebrows...

# **Rules of mime**

### STAY SILENT

Communicate meaning with your physical, not vocal skills.

### **OVER EXAGGERATION**

All of your movements must be incresed and enlarged- for clarity and for comedy.

### SIZE

When miming an object or piece of set, it's important that it stays the same size every time you interact with it.

### WEIGHT

Make sure you show the weight of any mimed object that you interact with and that this tays consitent throughout the performance.

### DISAPPEARING OBJECTS

Don't forget where you've 'put' mimed objects e.g. don't walk through a table you've mimed!

Homework: Research silent films. Why were they silent? Who were the stars? What were the costumes and story lines like? Extension: Watch a silent movie online and then write a film review. Consider the physicality of the actors.



		A. I	Key language devices used by writers		B. Key language devices us			es used by writers	
1	adjective		word that gives more information about a noun	1	irony	humorous what is bei		ic use of words to imply the opposite of	
2	adverb		word that gives more information about a noun	2	metaphor		- U	ething as though it were something else	
3	alliteration	1	repetition of the same first letter					u cannot touch, e.g. emotions like joy or	
4	anecdote		when a writer uses an incident from his or her personal	3	noun (abstract)	fear	0 /	, ,	
			experience to make a point, or entertain the reader	4	noun (concrete)	is somethir	ng that you	u can touch, e.g. a table or chair	
5	comparativ		adjective that compares the quality of something	5	noun (proper)		ven capita	Is identify particular places, things, people	
6	connotatio		the association that a particular image /colour / word has	6	onomatanasia	or events	t counda li	ike what it describes	
7	emotive la imagery	nguage /	language or imagery that promotes an emotional reaction		onomatopoeia				
	exaggerati	on /				-		cannot be proved to be true or untrue	
8	hyperbole		deliberately over-estimating for effect	8 paragraph			•	e and organise the ideas, setting, ext. The topic sentence is particularly	
9	Informal la	nguage	language that uses colloquialisms (everyday sayings) or slang and so suits informal situations					sting the main idea in the paragraph	
10	formal lang		language used in formal situations where the speaker / writer	9 personal pronoun		direct addr	direct address to the reader, e.g. 'you'		
		Suage	wishes to create a good impression	10 personification v		when an object is given human characteristic			
		C. K	Key language devices used by writers	Connectives used for com		mparison How to write about texts			
1	Inerspective	-	an be told from the first, second or third person point of view	Connectives used for con				The character is presented as	
2		(or persp used to e	mphasise / reinforce a point	Simila	Similarly, In contrast, Like		Point	The writer makes us think that The language of the text is used to The structure of the text is used to	
	•		n that is asked to draw attention to a particular point, rather	Howe	ever, Equally, Where	eas			
3		•	nuine request for information	In the	e same way, Alterna	atively		One way in which ( use the key words from the question) is For example, Such as	
4	sarcasm	language	designed to insult or taunt	As wi	th, On the other hai	nd	Evidence	One quote to show this is For instance In the line' This is shown in the quotation In the text it says '	
13	appeal to senses	language	or imagery connected to hearing / smell / taste / sight / touch		Key Terms			This is indicated in the line '         This is an example of a         The use of the feature is         An example of a	
16			of sentence lengths can be used for effect: e.g short	<ul> <li>Fiction – literature exploiting imaginary events and/or</li> <li>Non fiction – based on fic</li></ul>			echnique	By using the technique Bu using the writer shows that This suggests/shows/implies/connotes/indicates	
			s to create tension; long sentences to give detail ison introduced by 'like' or 'as'				Effect	The effect on the reader is This is used to show that The connotations of this are	
					al life events e.g news <b>mpare</b> – state the sin		D	(Use keywords from the question) Therefore it can be seen that Overall the writer is (relate back to the question and your ideas	
	· ·	,	that expresses the highest quality or degree	an	d differences between	2 texts	Kelate back	on this) Relate to why the writer wrote the text, what they are trying to convey)	
9			ee different qualities to reinforce or stress a point	of	what is written			The author's intention was to	
10	vorns	• •	scribed as 'doing words', however many verbs identify states s rather than actions and can be very emotive / effective	<ul> <li>Evaluate – offer your ow opinion</li> </ul>		n critical			



### **English - Private Peaceful**

1. Key Vocabula	ary					
Propaganda	Biased or misleading information used to promote a political cause.					
Conscription	Compulsory enrolment into the armed forces.					
Cowardice	Excessive fear that prevents an individual from taking risks or facing					
	danger.					
Patriotism	The feeling of loving your country and being proud of it.					
Desertion	The act of leaving the armed forces without permission.					
Court Martial	A court for trying soldiers accused of offences against military law.					
Enlistment	Voluntary action of joining the armed forces.					
Mustard Gas	Gas A poisonous gas used by the Germans in trench warfare against the					
	British. Caused blindness, choking and breathing problems and					
	sometimes death.					

### 3. World War 1 Facts

a. World War 1 was also known as The Great War

- b. Dates: from  $28^{th}$  July 1914 to November  $11^{th}$  1918.
- c. It is thought that 16 million [people died in the war.
- d. The war was between:

The Triple Alliance	The Triple Entente
Germany	Great Britain
Austria - Hungary	France
Their Allies	Russia

e. newspapers were banned from printing anything that spoke out against the war.

### 5. Early 1900s working class life

a. 25% of the British population lived in poverty at the start of the 20<sup>th</sup> century.15% were living at subsistence level which means that they barely had enough to eat.10% were living below subsistence level.

- d. Women were paid much lower wages than men.
- e. The average working week was 54 hours.

f. The only holidays most working-class people got were bank holidays. g. In the countryside, many working class people would find jobs at the big house as servants, gardeners or gamekeepers.

h. Scarlet fever was the biggest killer of children at the time. Symptoms are: high fever, headache, body aches, a red bumpy tongue, bright red skin in the creases of the body.

	Boys Come over here you're wanted
what did YOU do in the Sreat War	
of the 20th	DON'T STAND LOOKING AT THIS GO AND HELP!

2. Characte	ers
Tommo	Main protagonist. Younger brother of Charlie and Joe. Feels guilty about his
	father's death
Charlie	Protects Tommo at school and is Tommo's hero.
Big Joe	Eldest of the three boys. He is mentally disabled. Loves animals.
Molly	Charlie and Tommo's best friend.
Mother	Raises her sons on her own. Is kind and fair.
Grandma	A relative who looks after the boys when mother is working. She is cruel,
Wolf	especially to Big Joe.
The	Owns the manor house and the surrounding land where many villagers live
Colonel	and work.
Hanley	A cruel sergeant who bullies the soldiers.
Wilkes	A kind Captain who improves the moral of the soldiers and tries to protect
	Charlie and Tommo.

### 4. Recruitment

- Only men could join up as soldiers.
- Men were made to feel morally obliged to join the army.
- You had to be at least 18 years old to join the army, and 19 years old before you could be sent abroad to fight.
- The top age limit was 41 years old (the age limit was increased to 51 years old in April 1918).
- Women were encouraged to give white feathers to men who did not sign up.
- The minimum **height limit** started at 5 feet 3 inches but was raised to 5 feet 6 inches in order to prevent an unmanageable flood of volunteers coming forward.
- The youngest person to have signed up and fought during the war was 12year-old Sidney George Lewis.

"Women of Britain Say Go!"	Exclamatory phrase, imperative verb, emotive				
	langauge				
"Daddy, what did you do in the war?"	Emotive language, question.				
"Boys, come over here, you're wanted."	Direct address, 2 <sup>nd</sup> person pronoun, emotive				
	language, imperative verb.				
"Your country needs you!"	Exclamatory phrase, 2 <sup>nd</sup> person pronoun – direct				
	address, patriotic appeal.				
"Don't stand looking at this. Go and help!"	Imperatives, emotive – playing on guilt.				



### **Food Preparation and Nutrition: Special Diets and Food Origins**

Key terms	Definition				
1. Halal		Foods that are allowed to be eaten according to Islamic law. Foods that are not permitted are known as haram.			
2. Kosher K		o describe food and drink that complies with Jewish I law and that are fit and proper for consumption.			
3. Organic	Food produced without the use of chemical fertilisers, pesticides or other artificial chemicals.				
4.Intensive farming	A way of producing large amounts of crops, by using chemicals and machines as well as keeping animals indoors to restrict movement.				
5. Seasonal	The times of the year when the harvest or the flavour of a food is at its peak.				
6. Food miles	The distance for it reaches the co	od is transported from the time of its making, until onsumer.			
1					
Farm to Fork – How flour is made		On arrival at the mill the wheat is <b>cleaned</b> to remove dust, straw and other impurities.			
CONDITIONED WHEAT GRISTING		<b>Conditioning</b> with water softens the bran layer of the wheat and makes it easier to separate the parts of the wheat.			
		The wheat is blended with other types of wheat			

BREAK ROLLS SIEVES REDUCTION ROLLS WHEAT GER M WHITE FLOUR BRAN in a process called **gristing** to make different kinds of flour.

It is then **milled** through steel rollers with teeth that break the grains open.

The fragments of wheat grain are **separated** by sieves.

The bran, wheatgerm and endosperm have all been separated out. They can now be **blended** to make different types of flour.

2	Intensive Farming	Organic Farming		
Quantity (yield)	High yield, large amounts of food produced.	Lower yield of crops and more is lost and less is grown.		
Pesticides	Artificial pesticides are used to keep pests away resulting in more crop.	Pesticides restricted; natural predators encouraged.		
Animals	Battery rearing of animals in enclosures , less humane and can cause disease to spread quickly through the animal population	Animals have a better quality of life with access to outdoors. Animals not given antibiotics.		
Labour	Artificial chemicals and machines means fewer people are needed for work.	More people are needed to work the farms.		
<b>Fertilisers</b> If too much is used, it can wash in to steams and lead to pollution.		Only natural fertilisers are used along with crop rotations.		
Cost	Low cost of production but a high initial set up, maximum output is achieved resulting in a lower cost for consumers	Production is lower and more space is needed, resulting in higher cost produce for consumers.		



3

Farmed animals that have been inspected to VERY high welfare standards providing them with physically and mentally stimulating environments from birth to slaughter.

This logo is stamped on to

egg to certify that they are

British and that the hens

have been vaccinated

against Salmonella.



This symbol means that the food you buy has been responsibly sourced from British farmers, safely produced and comes from crops and animals that have been well cared for.



This symbol means that the product is certified to high organic standards and provides an assurance of organic authenticity.



## CHRIST THE KING - Knowledge Organisers Food Preparation and Nutrition: Special Diets and Food Origins

4	Food Safety	5	6	Different ages have different nutritional needs				
Microorganism	Tiny living things, such as bacteria, yeasts and	75°c Cooking Age		Definition				
Pathogen	moulds which cause food spoilage. Harmful bacteria which can cause food poisoning.	/ Reheating 63°c Hot holding	Young children	Children have small stomachs and should have small meals more frequently. Dairy is important for calcium. They should be encouraged to try new foods.				
High Risk Food	Foods which are ideal for the growth of bacteria or micro-organisms (e.g., chicken and shellfish).		Children	They are very active and growing rapidly. Need a balanced diet, sugar				
Contamination	When food is affected with micro-organisms.	5-63°c Danger		and snacking should be avoided.				
	READY TO EAT FOOD Prevent Cross Contamination Use correct colour coded chopping bards and knives at all times	Zone	Teenagers	Growth is in spurts, protein required for muscles and calcium for skeleton. Teenage girls begin mensuration. Teenagers deal with stress and this can lead to poor eating habits.				
<u>i</u>	Such as dairy products, yoghurt & cream RAW MEAT RAW MEAT Such as cream cakes, butter, cooked meats, leftovers & other packaged food.	5-0°c Fridge	Adults	Stop growing so needs don't as much. Eatwell guide should be followed. Metabolic rate slows through age. Muscle is lost and fat gained.				
	RAW MEAT, POULTRY & FISH     COOKED MEATS       Always cover & keep in sealed containers.     SALADS & FRUITS       VEGETABLES     VEGETABLES	-18°c Freezer	Elderly	Usually less active and need less energy. Taste and smell can change which affects enjoyment.				
	SALAD, FRUIT and vestables in sealed bags or containers, always wash before use.     DAIRY PRODUCTS     ALLERGENS		Pregnancy	Mum's diet is important for formation of a heathy fetus. Iron and calcium and supplement of B9.				
7		Diet Related He	ealth Problen	ns				
Obesity	The most common over nutrition problem is <b>obesity</b> c It is measured as a ratio of weight to height.	aused by too much e	energy being	consumed, or high levels of inactivity.				
Dental Health	To maintain healthy teeth, you need to have a balance	d diet. Bacteria fee	ds on the suc	rose found in food and produces acid.				
CHD & High blood pressure								
Type 2 Diabetes	betes This is a metabolic disorder caused by poor absorption of glucose. Diet plays a strong role in preventing type 2 diabetes, a condition that causes the level of sugar (glucose) in the blood to become too high.							
Anaemia	A condition caused by insufficient iron in the body and vitamin C, which is needed for absorbsion. Common symptoms include tiredness and lethargy.							
Diverticulitis	A condition which affects the large intestine. It is linked to a low fibre diet and causes the lining of the bowel to become inflamed, infected and damaged.							
Osteoporosis & rickets	<ul> <li>Calcium is important for strong bones. Vitamin D is needed for calcium to be absorbed from food. Rickets is caused by a lack of calcium and vitamin D in children.</li> <li>Osteoporosis is a disease in which the bones start to lose minerals and their strength and break easily.</li> </ul>							



	French	English
1	Mon collège s'appelle Christ The King. C'est un collège catholique et mixte. Il y a huit cents élèves et quarante profs. C'est assez grand.	My school is called Christ the King. It is a Catholic, mixed school. Ther are 800 pupil and 40 teachers. It's quite big.
2	Dans mon collège il y a un terrain de foot, cependant, il n'y a pas de piscine. C'est dommage !	In my school there is a football pitch, however, there isn't a swimmin pool. What a shame!
3	Dans mon collège on doit porter un uniforme scolaire. Je trouve ça nul !	In my school you must wear school uniform. I find that rubbish!
4	On porte un pantalon noir ou une jupe noire avec une veste noire et jaune. On porte aussi une cravate noire. J'adore mon uniforme.	We wear black trousers or a black skirt with a black and yellow blazer We also wear a black tie. I love my uniform.
5	Au collège, j'étudie la biologie, les maths, les sciences, l'histoire et le Français.	At school, I study Biology, Maths, Sciences, History and French.
6	J'aime le français et l'anglais parce que j'ai des bonnes notes et la prof est sympa	I like French and English because I get good grades and the teacher is nice.
7	Par contre, je déteste la technologie et l'art plastique parce que c'est compliqué, et le prof est stricte.	However, I hate Technology and Art because it's complicated and the teacher is strict.
8	Je dirais que le français est plus amusant que les maths, cependant	I would say that French is more fun than Maths however
9	hier j'ai étudié l'EPS et c'était vraiment divertissant	Yesterday I studied PE and it was really entertaining.
10	Dans mon collège, on commence les cours à neuf heures cinq et on finit à trois heures vingt.	In my school, we start lessons at 9:05 and we finish at 3:20
11	Le récré est à dix heures et la pause dejeuner est à douze heures vingt.	Break is at 10 and lunch break is at 12:20
12	Après je rentre à la maison en bus où je fais mes devoirs mais mon frère fait de la natation.	After I go home by bus where I do my homework, but my brother do swimming.



### **Geography - Development and Inequality**

1. Key words	
Development	Economic progress of a country and its improving quality of life
Inequality	Extreme differences in quality of life
Resource	An item with value or purpose e.g. food
Malnutrition	Ill or weak due to too little food
Famine	Extreme shortage of food
Drought	Prolonged period of low rainfall leading to water shortages
Aid	Money, supplies and skills supplied to improve lives.
Contaminated	Infected by poisonous or polluting substance e.g. chemicals or faeces
Sanitation	Clean water, good sewerage and waste disposal
Gender Inequality	Treating people differently because they are male or female
NGO	<b>Non-Governmental Organisation</b> . Charities which raise money to support development and raise awareness of issues.
UN	<b>United Nations</b> . a group of 192 countries set up after WW2 to bring the world together to avoid future conflict.



2. Development Indicators (Measurements used to compare quality of life in different countries)				
Birth rate	Nu	mber of babies born per 1000 of population		
GNI		<b>oss National Income</b> – the amount of money a Intry makes in a year		
Infant Mortality Rate		e number of children who die before their first hday per 1000 of population		
Life expectancy	Но	w long a person is expected to live		
Literacy Rate		e % of the population over 15 years old who can d and write		
HDI		man Development Index – a combination of life ectancy, GNI and education		
Per Capita	Per	Per person		
3. Causes of inequa	lity			
Landlocked	Landlocked No access to the sea			
Conflict		Ongoing violence between different groups/countries		
Access to healthcare	2	Shortage of hospitals, doctors, nurses, and medical supplies.		
Extreme weather		Temperature and rainfall which prevent effective agriculture		
Natural Hazards		Disasters such as tropical storms, floods or earthquakes which are large scale and costly.		
Access to education		Shortage of schools, teachers and resources		
Access to resources		Shortage of water, energy and food.		
Colonialism		European countries ruled over countries in Africa, Asia and the Americas.		

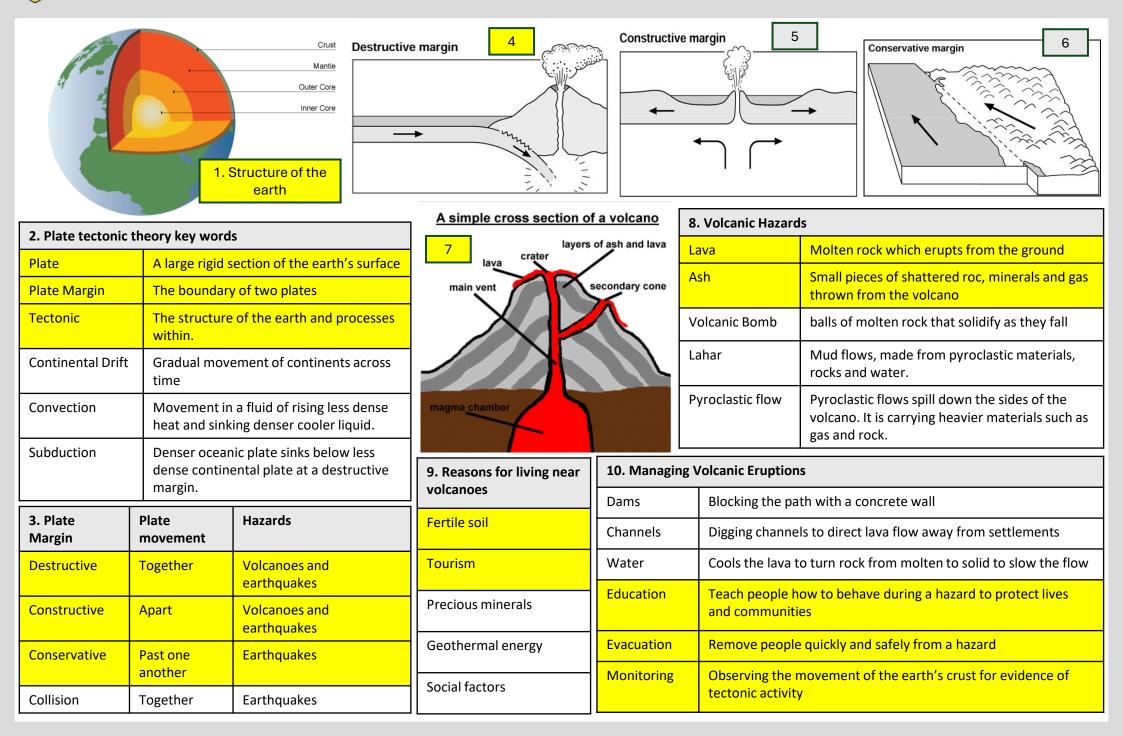


4. Trade Key Words		6. Migration		
Commodity`	A good for sale	Migrant	A person who moves from one place to another	
Import	A good entering a country from abroad for sale			
Export	A good leaving a country to go abroad for sale	Emigrant	A person who leaves a country to move to another one	
TNC (Trans-National	A large company with a headquarters in one country (often a			
Corporation)	HIC) which operates in a number of other countries.	Immigrant	A person who moves to a country from	
Plantation	A large estate on which crops are grown e.g. cocoa beans, coffee beans, sugar.		another country	
Cash crop	Crops grown for sale	Illegal Immigrant	A person who moves to another country without proper clearance	
Free trade	Trade between countries with no restrictions which favours			
	TNCS and HICs.		Someone who moves for money	
Fair trade	Trade of goods which guarantees a fair price for farmers and investment in their local community improving education,	Origin country	Where a migrant is from	
	healthcare and their environment.	Host country	Where a migrant moves to	

5. Types of aid	
Top-down aid	A government decides how to invest aid in their country
Bottom-up aid	Local populations decide on and run smaller-scale aid projects
Short-term emergency aid	Aid to recover from a disaster e.g. earthquake
Long-term development aid	Aid to improve development indicators within a place over a number of years



### **Geography - Tectonic Hazards**





### **History - The Industrial Revolution**

1. Key Words		4. Working Conditions			7. Knowledge of Skills			
Industry	Manufacturing goods in mills	Рау	Very	low pay for adults and children	Significance		Sufficiently great or important to be	
	and factories	Hours	6 day	ys a week. 12 hours a day. Few breaks			worthy of attention	
Revolution	A complete change	Conditions	Dang	gerous, dirty, punishments	What main someone		Importance: To people living at the time.	
Urbanisation	Population shift from rural to urban areas	Accidents	Fault	ty machines, no safety gear, whips, fire	something significant?		<b>Profundity</b> : How deeply people's lives were affected.	
Mechanisatio	on Machines replace manual labour	5. Transport			Significant:		Quantity: How many lives were	
Workhouses	Food and board for the poor in	Railways	Railways Cheaper, quicker and more comfortable				affected. <b>Durability</b> : For how long people's lives	
Tomas of	exchange for work	Canals	Slow	ver, likely to freeze and more expensive to d.			were affected. <b>Relevance</b> : The extent to which the	
Types of Transport	Railways, canals, steam ships	Shipping	Susc	ceptible to bad weather.			event has contributed to an increased understanding of present life.	
2. Living Cor	nditions	Roads	Long	g distance road transport went into	8. Timeline of key dates		key dates	
Housing	One room per family. Little furniture,		ucci		1825	The	first passenger railway opens	
	damp, dirty and unhygienic.	6. Invention	S		1834		or Law Amendment Act	
Sanitation	One shared outside water pump and toilet per street.	Great Exhibition 1851		n The aim was to improve the manufacture and design of British goods and to		Que	een Victoria becomes the Monarch	
Cholera	Infection caused by ingestion of food			cultivate public taste.	1848	Cho	lera epidemic across Britain	
	or water contaminated by bacteria.	Steam Engine		In the 17 <sup>th</sup> century the steam engine was	1870	Edu	ication Act	
	Epidemics in 1832, 1849 and 1866.			used to pump water out of mines.		Jack	< the Ripper	
3. Social Ref	ormers	Locomotive		A locomotive or engine is a rail transport		Cha	rles Booth's survey	
Social	Related to human society.			vehicle that provides the motive power for a train.		Dea	th of Queen Victoria	
Reform	Make changes to improve something.	Spinning Jenny The spinning jenny was an engine for						
Charles Booth	Created a survey in 1886 on living and working conditions and found 30% of London lived in poverty.		, , , , , , , , , , , , , , , , , , ,	spinning wool or cotton invented in 1764 by James Hargreaves which improved the mass production of cotton.				
Joseph Rowtntree	Concerned with the living conditions of his factory workers and made improvements	Telephone		Invented by Alexander Graham, Bell in 1876, but has been accused of copying other inventors.				



### **History - Political Reforms**

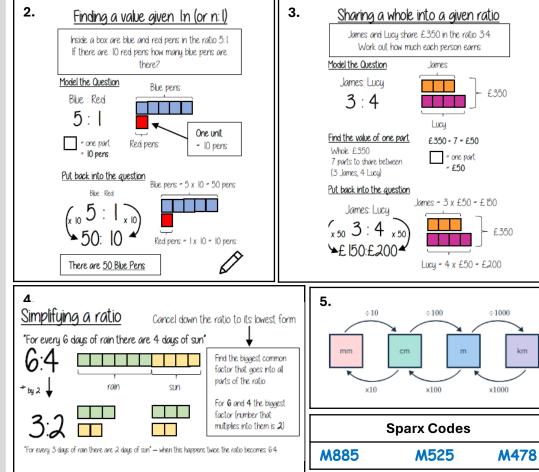
1. Before 1832		4. Emily	y Davison			5. Reactions		
Elections beforeNo secret ballots, corruption, bribery and violence.		Who is she?	is she? Three years later she gave up her job as a teacher and went to				Cat and Mouse Act	Authorities responded to hunger strikes firstly by force
Voters before 1832 Very rich men who lived in the countryside		work full-time for the suffragette movement. She was frequently arrested and in 1909, she was sentenced to a					feeding, but this was very dangerous. The government	
MPs before 183	32 Very rich men and aristocrats who didn't need to work		month's hard labour after throwing rocks at the carriage of chancellor David Lloyd George. She attempted to starve herself, and resisted force-feeding.				responded by introducing this act, which allowed prisoners to be released	
2. Nottingham	Riots	What			-	of the King's horse as it		when they became ill, then
Causes of the Reform Riots	<ul> <li>Reform Bill was defeated in the House of Commons.</li> <li>Local Nottingham landowner The Duke of</li> </ul>	did she do?	didwas taking part in the Epsom Derby whilst wearing an WSPUshesash. Her purpose was unclear, but she was trampled on and		Opposition	returned to prison when they were eating again. Mary Humphrey		
	<ul><li>Newcastle had voted against it.</li><li>Locals wanted revenge.</li></ul>	6. Chan	ges to Votin	ig in the 19	<sup>th</sup> and 20 <sup>th</sup> Centur	ies		Ward created the Women's National Anti-Suffrage
Events of the Reform Riots	A violent mob attacked Nottingham Castle and Colwick Hall.	Great R 1832	reat Reform Act Voters increased to 4 in every 10 men. 832			League in 1908. This organisation merged with the Men's League for		
Consequences of the Reform Riots	<ul> <li>Ring leaders arrested and put on trial with London Judges.</li> <li>George Beck was sentenced to death</li> </ul>		econd ReformIn 1866, all voters had to be male adults over 21act 1867years of age, but the right to vote was still based upon if you owned property.			Opposing Women's Suffrage in 1910, to form the National League for Opposing Woman		
	<ul> <li>Valentine Marshall was sentenced to transportation.</li> </ul>	Third Reform Act         Approximately two in three men now had the vote				Suffrage.		
3. Suffragettes		1884 - almost 18 per cent of the total population				7. Knowledge	of Skills	
Suffragists	Suffragists (NUWSS) wanted to act within the law to win support for their cause. They felt that any actions that broke the law would allow their opponents to	the People Act 3 1918 v		This act gave all men over 21 and all women over 30 the right to vote. This represented 8.5 million women - two thirds of the total population of women in the UK.		Source	Evidence from the time which historians can use to find out information.	
	portray them as irresponsible and not allow the vote.	Equal F	ranchise			ve all women over 21	Useful	A source is always useful as it
NUWSS	The NUWSS were led by Millicent Fawcett and were founded in 1897. They aimed to win women's		Act 1928 the right to vote. This made the voting age equ amongst men and women.				is from the time, however some sources are more useful than others.	
	suffrage through debate and campaigning, such as petitions and non-violent marches.	8. Timeline of key dates				Bias	Bias is where personal	
Suffragettes	Suffragettes (WSPU) used militant methods to	1819	Peterloo Massacre		1913	Cat and Mouse Act		opinions are included to influence your judgement.
	protest for their right to vote such as chaining themselves to Buckingham Palace and burning down homes of MPs.	1831	Nottingham Riots		1913	Emily Davison dies at Epsom Races	Examples	Picture, speech, letter, diary entry, newspaper article,
WSPU		1832	Great Reform Act		1914-1918	World War One		records, cartoons, posters.
VV3PU	The WSPU was formed in 1903 by Emmeline Pankhurst. She had been a member of the Suffragists but had grown impatient and decided to form her	1867	Second Re	form Act	1918	Representation of the People Act	Provenance	This is a source's nature (type), origin (where, who, when) and purpose (why).
own suffrage movement.		1887	Third Refo	m Act 1928		Equal Franchise Act when) an		

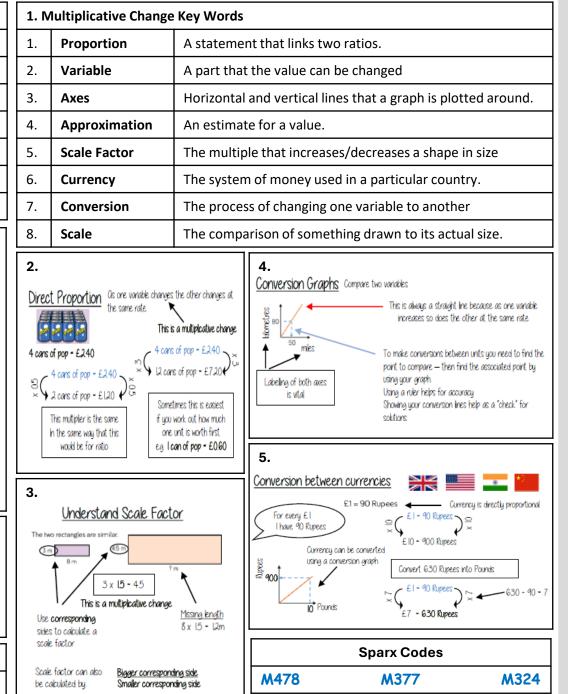


	Keyword	Definition	] <b>]</b>	Type of software	Example	Us	sed for
<b>–</b>	Cell	Individual element of a spreadsheet		Web browser	Google Chrome		earching for information / nages
	Formula	Mathematical equation	-	Word processor	Microsoft Word	_	reating documents / letters / ports
	Function	A preset formula such as SUM, AVERAGE or	-	Spreadsheet app	Microsoft Exce	l Da	ata analysis / graphs / charts
	Filter	COUNT Used to highlight data that contain a certain value	tain	Email client	Micosoft Outlook		ending and receiving emails calendar function
	Sort	Allows data to be placed in an order such as numerical or alphabetical	-	Team collaboration software	Microsoft Tean		naring files / working on files ith other people
3	Colour swa	itch Company logo		Font Style	4	Animatio	ons Images / text can be animated to move around or appear on a slide in a specific way
•	Construction of the constr	Pizza Hut of cnimal planet	Sans Ser	if Serif H		Transition	ns Movement between one slide and the next
			Script	Display M	Ionospaced	Slide Sho	ow Presenting the slides in order to an audience

### Maths - Ratio and Scale & Multiplicative Change

1. F	1. Ration and Scale Key Words					
1.	1. Ratio A statement of how two or more items compare.					
2.	2. <b>Equal parts</b> All parts in the same proportion, or a whole shared equally.					
3.	3. <b>Proportion</b> A statement that links two ratios.					
4.	4. <b>Order</b> To place a number in a determined sequence.					
5.	5. Equivalent Of equal value.					
6.	6. <b>Factors</b> Integers that multiply together to get the original value.					
7.	7. Scale The comparison of something drawn to its actual size					





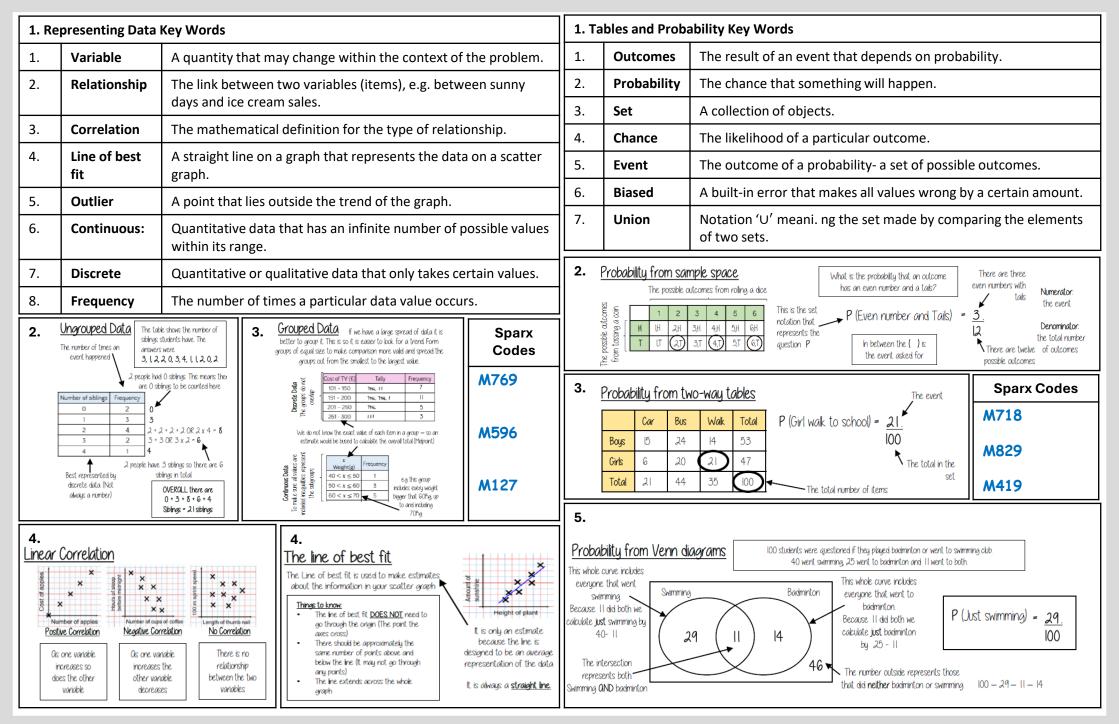


# CHRIST THE KING - Knowledge Organisers Maths - Multiplying and Dividing Fractions & The Cartesian Plane

1. M	ultiplying and Dividing	g Fractions Key Words		1. C	artesian Plane K	ey Words	
1.	Numerator	The number above the line on a fraction, the top	number	1.	Quadrant	Four quarters of the coordinate plane.	
		represents how many parts are taken.		2.	Coordinate	A set of values that show an exact position.	
2.	Denominator	The number below the line on a fraction, the num the total number of parts.	iber represent	3.	Horizontal	A straight line from left to right (parallel to the x axis).	
3.	Whole	A positive number including zero without any dec	imal or fraction	4.	Vertical	A straight line from top to bottom (parallel to the y axis).	
		parts.		5.	Origin	(0,0) on a graph, the point the two axis cross.	
4.	Commutative	An operation is commutative if changing the orde change the result	er does not	6.	Parallel	Lines that never meet.	
5.	Unit Fraction	A fraction where the numerator is one and the de	enominator is a	7.	Gradient	The steepness of a line.	
		positive integer.		8.	Intercept	Where lines cross.	
6.	Non-Unit Fraction	A fraction where the numerator is larger than one	2.	2.		4.	
7.	Dividend	The amount you want to divide up.		Lines pa		the ports on this line have coordinate of 10 (* Cone QWY notice or regular withing 0 y- Coordinates in four quadrants y- Coordinates in four quadrants y- Coordinates (k, y) (6, 4)	
8.	Divisor	The number that divides another number.		Intersection		Lines paralel to the <b>y</b> axis take the form	
9.	Quotient	The answer after we divide one number by anoth Divisor = Quotient	er. Dividend ÷	points			
10.	Reciprocal	A pair of numbers that multiply together to give 1		[		coordinate of -2 al ligon the because the y coordinate is -2 Designs the text of the position on the x axis first y axis second any number)	
Shade in 3 parts	Multiplying non-unit fractions       Dividing any fractions         Shok n 3       Repeat it $3 \times 2 = 6$ Parts shoked $2 \div 3$ Represented				y - 3x	Use the lines y=kx The value of k changes the steepness of the line y - x Note: y - x is the same as y-lx y - X x The bigger the value of k the steeper the line will be will always go gh (0.0) The closer to 0 the value of k the closer the line will be to the x axis.	
4.	4. <u>The reciprocal</u> when you multiply a number by its reciprocal the answer is always / $3 \times \frac{1}{3} = 1$ $\frac{1}{3} + \frac{1}{3} = 1$ The reciprocal of 3 is $\frac{1}{3}$ and vice versa Reciprocals for division $e_{0}$ $5 \div \frac{1}{4} = 20$ $5 \times 4 = 20$ Mitipling by a reciprocal gives the same otcome M157 M110 M216				Recognise and	Use the line y=x This means the x and the y coordinate have the same value Examples of coordinates on this line: (0, 0) (-3, -3) (8, 8) The axes scale is important – if the scale is the same y - x will be a straight line at 450 Sparx Codes M618 M932	



### Maths - Representing Data and Tables & Probability





	anycar.com Simple. So Schofield.	25	gocompare.com
	Jingle - key words		
Advert	A public announcement promoting a particular product.	K	
Jingle	Musical advert	E Y	<u>What is a Jingle?</u>
Script	Dialogue		lt's simply amusi
Hook	A short phrase that "catches the ear".	W O	cal <mark>advert.</mark>
Melody	A tune	R	Advertising is used to sell a product, in
Slogan	A catchy phrase	D S	order to make money and music is a key
Rhythm	Beats - A repeated pattern of strong and weak b	eats.	feature when creating an advert.
Foregrour	<b>Music</b> Music used as the main focus of the adv	ert.	

### Music - Computer and Video Game Music

## Computer and Video Game Music



### Early Computer and Video Game Music



Early video game music consisted primarily of SOUND EFFECTS (an artificially created or enhanced sound used to emphasize certain actions within computer and video games), CHIPTUNES or 8-BIT MUSIC (a style of electronic music which used simple melodies made for programmable sound generator (PSG) sound chips in

vintage computers, consoles and arcade machines) and early sound SYNTHESISER technology (an electronic musical instrument that generates audio signals that may be converted to sound). SAMPLING (the technique of digitally encoding music or sound and reusing it as part of a composition or recording) began in the 1980's allowing sound to be played during the game, making it more realistic and less "synthetic-sounding".

### How Computer and Video Game Music is Produced



Fully-orchestrated SOUNDTRACKS (video game music scores) are now popular – technology is used in their creation but less in their performance. The composer uses MUSIC TECHNOLOGY to create the score, it is then played by an ORCHESTRA and then digitally converted and integrated into the game. Video game SOUNDTRACKS have become popular and are now commercially sold and performed in concert with

some radio stations featuring entire shows dedicated to video game music.



Koji Kondo Super Mario Bros. (1985) The Legend of Zelda (1986)



Michael Giacchino The Lost World: Jurassic Park (1997) Medal of Honour (1999) Call of Duty (2003)



Mieko Ishikawa Dragon Slayer (1993)



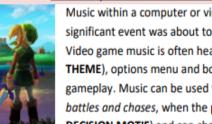
Martin O'Donnell and Michael Salvatori Halo (2002)



Daniel Rosenfield Minecraft (2011)



Rom Di Prisco Fortnite (2017)



Music within a computer or video game is often used for CUES (knowing when a significant event was about to occur).

How Computer and Video Game Music is used within a Game

Video game music is often heard over a game's title screen (called the GROUND THEME), options menu and bonus content as well as during the entire gameplay. Music can be used to INCREASE TENSION AND SUSPENSE e.g. during battles and chases, when the player must make a decision within the game (a DECISION MOTIF) and can change, depending on a player's actions or situation

e.g. indicating missing actions or "pick-ups".

JUMPING BASS LINE			
Where the bass line often			
moves by LEAP (DISJUNCT			
MOVEMENT) leaving 'gaps'			
between notes	det		
NI 7 N R 1    7 N R J	the		
-	Sho		

2.

STACCATO ARTICULATION rforming each te sharply and tached from others. own by a dot.

	CHROMATIC MOVEMENT
	Melodies and bass lines that
	ascend or descend by semitones.
-	Chromatic Scale

Accenting the weaker beats of the bar to give an "offbeat jumpy feel to the music.

SYNCOPATION

### Character Themes in Computer and Video Game Music

Musical Features of Computer and Video Game Music



Characters within a video game can also have their own CHARACTER THEMES or CHARACTER MOTIFS – like LEITMOTIFS within Film Music. These can be manipulated, altered and changed adapting the elements of music – ORCHESTRATION (the act of arranging a piece of music for an orchestra and assigning parts to the different musical instruments), TIMBRE, SONORITY, TEXTURE, PITCH, TEMPO, DYNAMICS – depending on the character's situation or different places they travel to within the game.

### Famous Computer and Video Game Music Composers and their Soundtracks



Co	omponents of Fitness		Movement Analysis
F	lealth Related Components	Type of Plane	Movement Available
1. Cardiovascular Fitness	The ability to exercise the entire body for long periods of time without tiring	1. Sagittal	Divides the left and right side of the body, vertically.
2. Muscular Endurance	The ability to use voluntary muscles many times without getting tired	2. Frontal	Divides the front and the back of the body, vertically.
3. Muscular Strength	The amount of force a muscle can exert against resistance	3. Transverse	Divides the top and bottom of the body, horizontally.
4. Flexibility	The range of movement possible at a joint		
5. Body Composition	The relative ratio of fat mass to fat-free mass in the body		
	Skill Related Components	Sagittal plane	Frontal plane 5. FRONTAL AXI
6. Agility	The ability to change the position of the body quickly while maintaining control of the movement	Transverse plane	Frontal axis
7. Balance	The ability to retain the body's centre of mass above the base of support		Sagittal axis
8. Coordination	The ability to use two or more body parts together		6. SAGITTAL AX
9. Reaction Time	The time it takes to respond to a stimulus		
10. Power	The ability to do strength performance quickly		Vertical axis
	(power = strength x speed)		
11. Speed	The amount of time it takes to perform a particular action		7. VERTICAL AX



		Principles of Training	Cardiovascular System		
1.	Specificity	Ensuring that the training is relevant and specific to the sport you are training for		Ċ	Pulmonary vein
2.	Progressive Overload	Training frequency, intensity, time and type must be increased over time to ensure the body is pushed beyond its normal rhythm	R	ulmonary attery ight atrium ight ventricle ena cava	Blood Pressure: when     heart contracts it pushes     the blood into blood     vessels which creates
3.	Individual Needs	Training must be related to an athletes age, gender, injury status and fitness level	Ke	y Deoxygenated blood	blood pressure. 1. Systolic value – blood
4.	Reversibility	Systems and progress are reversed if training stops or is reduced			Semilunar valves 2. Diastolic value –
5.	Rest and Recovery	Physical adaptations occur during the recovery and rest periods of the training cycle	Tri	ght turn cuspid ve	blood pressure whilst the heart is relaxing
6.	Overtraining	If an athlete doesn't have sufficient rest periods then their body doesn't have time to adapt and overall fitness declines	Se	ptum ght ntricle	Left ventricle
					Key Words
		FITT Principle	1	Artery	carries blood away from the heart (usually oxygenated blood, except for the pulmonary artery)
1.	Frequency	This is increased by training a greater number of times each week	2	Vein	carries blood back to the heart (usually deoxygenated blood, except for the pulmonary vein)
2.	Intensity	This is increased by lifting a greater resistance when weight training, or training at a higher percentage of your maximum heart rate	3	Capillary	allows diffusion of gases and nutrients from the blood into the body cells
3.	Time	This can be when you train for longer periods or when you	4	Heart Rate (HR):	number of times the heart beats per minute.
J.	Time	reduce recovery time between sets of exercise	5	Red Blood Cells	transport oxygen around the body
4.	Туре	This is where you offer a variety of training types and	6	White Blood Cells	fight infection
	/ I <sup>-</sup> -	experiences for the athlete by combining different training	7	Platelets	clot to prevent blood loss during injury
		methods	8	Plasma	liquid part of the blood

### **RE - Creation and Covenant**



		Key Words		Key Quotes	THE TEN-		
1	The Fall	the story in Genesis 3 where humans commit the first sin and fall away from God's grace.	1	'Go therefore and make disciples of all nations, baptizing them in the name of the Father, and of the Son and of the Holy Spirit.' <i>Matthew 28:19</i>			
2	Original Sin	The state of sin in which all humans are born, meaning they inherit the consequences of Adam and Eve's first sin.	2	'we all carry within us a drop of the poison of that way of thinking, illustrated by the images in the Book of Genesis the human being does not trust God' <i>Pope Benedict XVI</i>			
3	Concupiscence	The natural temptation to sin that all humans have, following the Fall.		Key Facts			
4	Covenant	A promise between God and his people.		Adam and Eve were tempted by the serpent to diso	-		
_	The Development	The ten 'words' or sayings of God that guided the Jewish people to live as God	1	Tree of Knowledge. God knew they had sinned because Adam and Eve hid from him. This is called <b>The Fall</b>			
5	The Decalogue	wanted; also called the Ten Commandments.	2				
6	Freedom	The power or right a person has to act, speak or think as they want; being able to choose their own destiny, independent or	3	ground. Sin is the act of going against God. This damages the humanity. All humans are born with <b>Original Sin</b>	e relationship between God and		
7	Responsibility	influence from anyone or anything else. Having control or power over something, which leads to a duty or moral obligation to behave correctly.	4	God gave Moses the 10 Commandments ( <b>the Decalogue</b> ) to give His people guida on how to live in a way which is pleasing to him. They are divided into those which to show love of God and those which show love of neighbour.			
8	Conscience	An intuitive knowledge of right and wrong, which leads to an instinctive desire to do right and avoid wrong.	5	<ul> <li>Humans need to educate their conscience to allow them to make moral decisions.</li> <li>Some of the ways they can do this include studying the Bible, prayer and receiving sacraments.</li> </ul>			
	<b></b>	The Sacrament of Initiation that welcomes new members into the Catholic Church	6	During <b>Baptism</b> symbols such as water, white garme that a person has had their original sin washed away community.			
9	Baptism	and washes a person clean of the original sin all humans inherit following the first sin by Adam and Eve.		Sophie Scholl was a Christian teenager who lived in Nazi rule and stood up for those who were being pe arrested, found guilty of treason and beheaded.			



	Key Words			Key Quotes
1	Prophet	A person anointed by God and inspired by God through the Holy Spirit to share God's messages.	1	'And you, child, will be called the prophet of the Most High; for you will go before the Lord to prepare his ways' Luke 1
2	Priest	A person anointed by Good to make thanksgiving offerings on behalf of the people; today it also refers to an ordained minister of the Catholic Church, who celebrates the sacraments in which		'before I formed you in the womb I knew you, and before you were born I consecrated you; I appointed you a prophet to the nations.' Jeremiah 1
	all Catholics participate.			Key Facts
3	King	An anointed person who has authority, power and responsibility for people in his care; also a rule of a country.	1	There are many <b>prophets</b> in the Old Testament who share God's messages with humanity. They can be warnings, encouragements or predictions.
4	Messianic	Relating to the Messiah	2	Jeremiah is known as 'the weeping <b>prophet</b> ' because his prophecies suggested that
5	Advent	The first season in the liturgical year, in which Christians prepare and wait for both the birth of	2	terrible things would happen unless people started living life according to God's laws.
	<i>i</i> di cite	Jesus and the Second Coming of Christ.	3	The <b>prophets</b> talk about common themes. These include encouraging repentance,
		An early Hebrew prophet who called people back		caring for the poor and judgement.
6	Amos	to God and warned if divine judgement on people who have sinned.	4	John the Baptist is said to be the final prophet. He was called by God to prepare the way for Jesus and fulfils Zephaniah's prophecy by baptising people.
7	Elijah	An Old Testament prophet who foretells the coming of the Messiah in the books 1 Kings and 2 Kings.	5	Catholics are called to be <b>priest</b> , <b>prophet</b> and <b>king</b> . This means that they should participate in the sacraments, share the words of God with others and show people how to behave by setting a good example.
8	John the Baptist	A New Testament prophet who prophesised and prepared the way for Jesus as the Messiah; also the cousin of Jesus.	6	St Oscar Romero was a man who worked in El Salvador and spoke out about the corruption of his country. This led to him being shot and killed whilst celebrating Mass.
			7	<b>Advent</b> is a time of preparation for Catholics. They prepare for the arrival of Jesus, the Incarnation. Catholics anticipate the coming of Jesus just like the prophecies said.
	4		8	Advent is celebrated around the world in different ways. In the UK many primary school children take part in Nativity plays whereas in South America they celebrate Las Posadas.



### **Science - Eco Systems**

### 1. Respiration

- · Respiration is the process in which energy is released from the molecules of food which you eat
- Respiration happens in the mitochondria of the cell
- Aerobic respiration involves oxygen, it is more efficient as all of the food is broken down to release energy
  glucose + oxygen → carbon dioxide + water
- The glucose is transported to the cells in the blood plasma
- The oxygen is transported to the cells in red blood cells, by binding with haemoglobin
- Carbon dioxide is a waste product and is transported from the cells to the lungs to be exhaled
- Anaerobic respiration is a type of respiration which does not use oxygen, it is used when the body cannot supply the cells with
  enough oxygen for aerobic respiration
- Anaerobic respiration releases less energy than aerobic respiration

glucose → lactic acid + carbon dioxide

- The lactic acid produced through anaerobic respiration can cause muscle cramps
- Lactic acid will build up if there is not enough oxygen present in the blood supply to break it down. This is known as an oxygen debt

### 2. Fermentation

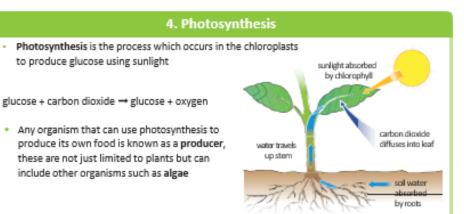
- · Fermentation is a type of anaerobic respiration which occurs in yeast
- Instead of producing lactic acid, yeast produces ethanol, which is a type of alcohol glucose → ethanol + carbon dioxide
- · This process can be used to form alcohol to drink or to allow bread and cakes to rise

### 3. Plant minerals

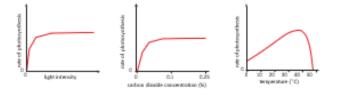
Plants need minerals for healthy growth, if they do not have enough of these minerals this is known as a mineral deficiency

Mineral	What is It used for?	What happens if there is not enough?
nitrates (contain nitrogen)	healthy growth	poor growth and older leaves yellow
phosphates (contain phosphorus)	healthy roots	poor growth, younger leaves look purple
potassium	healthy leaves and flowers	yellow leaves with deadpatches
magnesium	making chlorophyll	leaves will turn yellow

Fertilisers can be used to stop plants from suffering with mineral deficiencies

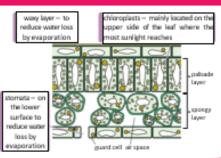


- The rate of photosynthesis can be affected by:
- Light intensity the higher the light intensity the higher the rate of photosynthesis up to a point
- Carbon dioxide concentration the higher the carbon dioxide concentration the higher the rate of
  photosynthesis up to a point
- Temperature the optimum temperature is the temperature at which photosynthesis
  occurs at the highest rate, before and after this the rate will be less



### 5. Leaves

- To best adapt for photosynthesis leaves have a number of adaptations
- They are thin to allow the most light through
- There is a lot of chlorophyll to absorb light
- They have a large surface area to absorb as much light as possible

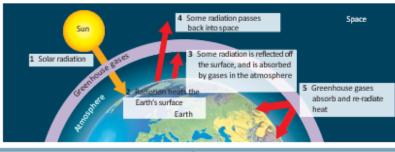




### Science - Earth

### 1. The atmosphere

- The air around us all of the time is known as the atmosphere. It is made up of a mixture of gases
- When the Sun heats the Earth's surface, some of the radiation is absorbed and some is reflected back into space
- Some of the gases in the atmosphere absorb radiation that is about to be reflected into space, this keeps the Earth at a warmer temperature than it would be without the atmosphere, this is needed as otherwise it would be too cold for life
- The gases in the atmosphere which absorb and trap this radiation are known as greenhouse gases, the most commonly known greenhouse gases are carbon dioxide and methane



### 2. Global warming

Global warming is the gradual increase in temperature of the Earth

The carbon cycle is the

processes by which carbon is naturally transferred to

different stores through a range of natural processes

Carbon is released into the

of fossil fuels, and animal

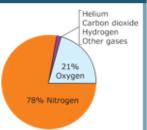
during photosynthesis

respiration

This is closely linked to the rise in carbon dioxide levels in the atmosphere

3. The carbon cycle

### nd-based animal atmosphere through combustion forcil fueb edimentary took It is then reabsorbed by plants



### 5. Extracting metals

- Metals are a natural resource, with most being found joined with other elements in compounds
- Naturally occurring metals and their compounds are known as minerals
- An ore is a naturally occurring rock which contains enough of a mineral to be worth extracting
- An example of an ore is Bauxite, which contains aluminium hydroxide
- When metals are extracted, they first have to be separated from other minerals in the ore, then they need to undergo a chemical reaction to separate them from the other element that they are joined to in a compound
- If a metal is below carbon in the reactivity series, it can be extracted by reacting it with carbon in a displacement reaction
- As carbon is more reactive it will take the place of the metal in the compound, leaving the metal on its own: carbon + metal oxide → metal + carbon dioxide carbon

+ copper oxide → copper + carbon dioxide

zinc iron

If the metal is above carbon in the reactivity series, electrolysis can be used, this involves separating the metal by using electricity magnesium aluminium carbon lead copper

Reactivity series

### 6. Recycling

- Recycling is the collecting and processing of materials that have been used so that the resources can be used again
- Recycling can have both advantages and disadvantages:

Advantages	Disadvantages					
<ul> <li>Resources will last longer</li> <li>It uses less energy than extracting new materials</li> <li>It reduces waste and pollution</li> </ul>	<ul> <li>Separating rubbish can be seen as a nuisance</li> <li>The lorries collecting recycling produce pollution</li> <li>Some materials are easier to recycle than others</li> </ul>					

### 4. Climate change

- Long term changes to weather patterns are known as climate change
- This can cause the ice caps to melt, leading to sea levels rising and flooding of low-level land
- Graphs alone cannot confirm that humans are the cause, but the majority of scientists now believe that human activity is a very likely cause
- We can help to prevent climate change by:
  - Using renewable energy resources
  - Using cars less
- Buying and wasting less resources



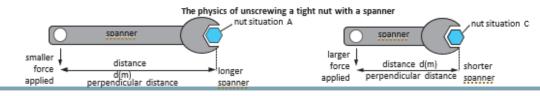
### **Science - Energy**

### 1. Work

- In physics, work done is the energy transferred when a force is used to move an object a certain distance
- Like energy, work is measured in Joules (J)
- Work can be done in a a range of situations, e.g. lifting a book work is done against gravity, when you slide a book
  along a table work is done against friction
- We calculate work with the equation:

work done (J) = force (N) × distance moved (m)

- A simple machine makes it easier to lift things, they reduce the force needed
- A force multiplier uses a smaller input force (what you apply) to to generate a larger output force (what is created)
- If you increase the distance from the pivot, less input force is needed to be used for the same output force as before
- A lever is an example of a force multiplier, a longer lever will require a less input force than a shorter lever to
  produce the same output force



### 3.Radiation

- Radiation is a method of transferring energy without the need for particles
- An example of radiation is thermal energy being transferred from the Sun to us through space (where there are no particles)
- This type of radiation is known as infrared radiation, it is a type of wave just like light
- · The hotter an object is the more infrared radiation it will emit (give out)

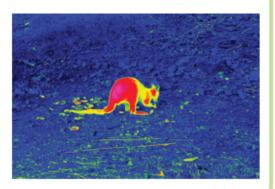
thermal

a low

store at

temperature

- The amount of radiation emitted and absorbed depends on the surface of the object:
- Darker matte surfaces absorb and emit more infrared radiation
- Shiny and smooth surfaces absorb and emit less infrared radiation, instead reflecting this
- The amount of infrared radiation being emitted can be viewed on a thermal imaging camera



### 2. Energy and temperature

- The temperature of a substance is a measure of how hot or cold it is
- Temperature is measured with a thermometer it has the units of degrees Celsius (°C)
- The thermal energy of a substance depends on the individual energy of all of the particles, it is measures in Joules (J)
- As all particles are taken into account, a bath of water at 30 °C would have more thermal energy than a cup of tea at 90 °C as there are many more particles
- · The faster the particles are moving, the more thermal energy they will have
- · When particles are heated, they begin to move more quickly
- The energy needed to increase the temperature of a substance depends on:
  - the mass of the substance
  - what the substance is made of
  - how much you want to increase the temperature by

### 4. Conduction

- Conduction is the transfer of thermal energy by the vibration of particles, it cannot happen without particles
- This means that every time particles collide, they transfer thermal energy
- Conduction happens effectively in solids as their particles are close together and can collide often as they vibrate around a fixed point
- Metals are also good thermal conductors as they contain electrons which are free to move
- In conduction the thermal energy will be transferred from an area which has a high thermal energy store (high temperature) to an area where there is a low thermal energy store (low temperature)
- Gases and liquids are poor conductors as their particles are spread out and so do not collide often, we call these insulators

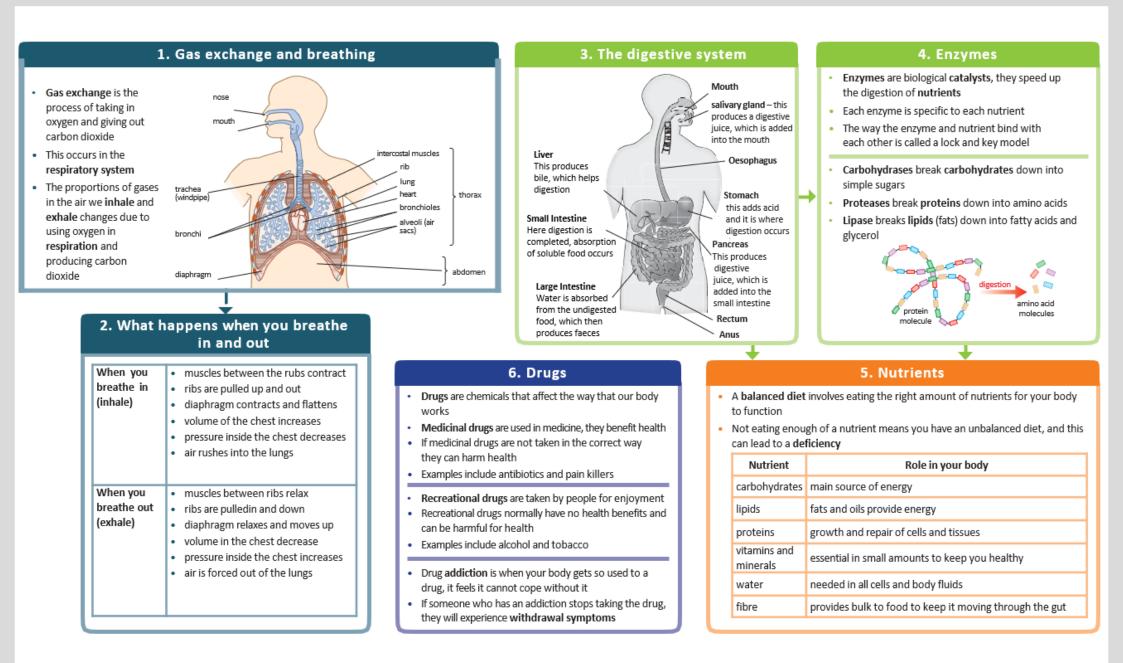
thermal store at a high temperature

### 5. Convection

- Convection is the transfer of thermal energy in a liquid or a gas, it cannot happen without particles
- As the particles near the heat source are heated, they spread out and become less dense, this means that they will rise
- More dense particles will take their place at the bottom nearest the heat source creating a constant flow of particles
- This is known as a convection current
- Convection cannot be one in a colid as the particles cannot fl around a fixed poi

### **Science - Organisms**

## **CHRIST THE KING -** Knowledge Organisers





### Science - Matter

### 1. Elements and atoms

- An element is a substance that only contains one type of atom, it is found on the Periodic Table
- Each element has it's own unique chemical symbol which is the same in every language, these are also found on the Periodic Table
- An atom is the smallest part of which an element can be broken down into
- As there are around 100 types of elements that can occur naturally, there are around 100 different atoms

### 2. Compounds

- Compounds are formed when two or more different elements chemically bond together
- The compound will have different physical properties to the elements which make up the compound, for example water is a liquid, but it made from oxygen and hydrogen which are both gases
- Compounds are hard to separate and need a chemical reaction to do this
- When naming a compound, we always mention the metal first and the non metal second
- The name of the metal will not change but the name of the non metal will, for example oxygen can change to oxide
- Chemical formulae tells us how many atoms of each element are in the compound in relation to each other

CH<sub>4</sub> 1 carbon 4 hydrogens 1 carbon 2 oxygens

 The small number tells us the number of each element which is in front of the number

### 3. Polymers

- Polymers are long chains of groups of atoms which are repeated many times
- Natural polymers are not man-made and include wool, cotton, starch and rubber
- Synthetic polymers are man-made and include polythene, polystyrene and nylon

													/			0	
1	z		н											pnun 5	nber 6	7	He
Li	Be												С	Ν	0	F	Ne
Na	Мg											Al	Si	Ρ	s	Cl	Ar
К	Ca	Sc	Ti	٧	Cr	Мn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Мо	Тс	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	Т	Хe
Cs	Ba	La	Hf	Та	w	Re	Os	lr	Pt	Au	Hg	тι	Рb	Bi	Po	At	Rn
Ex	Da																

### 5. Group 1

- Group 1 elements are also known as the alkali metals
- They share similar properties with other metals such as:
- Being shiny when freshly cut
- · Being good conductors of electricity and heat
- Group 1 metals are much softer than other metals and also have much lower melting and boiling points
- Group 1 elements react with water to form alkali solutions

lithium + water → lithium hydroxide + hydrogen metal + water → metal hydroxide + hydrogen

- The further down the group that the metal is, the more vigorous the reaction will be. This is called a trend
- Another trend seen in Group 1 is with the boiling and melting points: the further down the group, the lower the boiling and melting points are

### 4. Groups and periods

- Groups are the columns in the Periodic Table, they go downwards
- Periods are the rows in the Periodic Table, they go sideways
- Elements in the same group normally follow the same trends in properties such as melting point, boiling point and reactivity
- By placing these elements into these groups, scientists can make predictions about their properties

1					6. Group 0	7. Halo	zens	
grou	p nun	nber		0	7	Group 0 elements are known as the noble gases	fluorine	most
4	5	6	7	He		They are all non metals with low melting	Ruonne	reactive
С	Ν	0	F	Ne		and boiling points, meaning all are gases	chlorine	
Si	Ρ	s	Cl	Ar		at room temperature The boiling point decreases going	hander	
Ge	As	Se	Br	Kr		down the group	bromine	
Sn	Sb	Te	I	Xe		All of the group 0 elements are	iodine	least reactive
Рb	Bi	Po	At	Rn		unreactive When electricity is passed through the		- Calific
						gas, they emit a brightly coloured light, this can be seen in neon signs		

### 8. Group 7

- Group 7 elements are also known as the halogens
- They share similar properties with other non metals such as:
  - Having low melting and boiling points
  - Not conducting electricity
  - · Moving down the groups the elements have an increased melting and boiling point
- The halogens also react in a similar way to one another, for example with iron:

iron + chlorine → iron chloride

iron + bromine → iron bromide

- Halogens can undergo displacement reactions, this is where a more reactive halogen will take the place of a less reactive halogen
- The most reactive halogens are at the top of the group, and the least reactive halogens are at the bottom of the group

calcium bromide + chlorine 2 calcium chloride + bromine

 If the most reactive halogen is on its own, it will take the place of the less reactive halogen in a compound



	Ecosystem		Earth	Energy			
Keyword	Definition	Keyword	Definition	Keyword	Definition		
Aerobic	The process by which organisms use oxygen to	Atmosphere	The mixture of gases found	Conduction	Transfer of thermal energy by the		
respiration	transfer the energy in a fuel into chemical energy		in the air around us.		vibration of particles.		
Algae	A single celled plant	Carbon cycle	The process by which carbon	Convection	Transfer of thermal energy when particles		
Anaerobic	The process by which organisms transfer the		is naturally transferred from		in a fluid rise		
respiration	energy in a fuel into chemical energy, but in the		one store to another	Convection	The movement of heated fluids where hot		
	absence of oxygen	Climate change	Long term changes to	current	fluid moves upwards, and cold fluid moves		
Chlorophyll	The green pigment found in plants which absorbs		weather patterns		downwards		
	light during photosynthesis	Combustion	The burning of a fuel in	Force multiplier	A simple machine that uses a small input		
Mineral	A condition in organisms where the		oxygen		force to generate a large output force		
deficiency	concentration of a mineral is lower than it should	Electrolysis	The extraction of metal from	Input force	The force you apply to make an object		
	be and so impairs the function of the organism		a compound using electricity		move or change shape		
Fermentation	A type of anaerobic respiration in which glucose	Fossil fuel	A chemical energy store	Insulator	Materials which do not allow thermal		
	is converted to ethanol, carbon dioxide and	FUSSILIUEI	formed from the remains of		energy to pass through them.		
	energy			Infrared radiation	The transfer of thermal energy without		
Fertiliser	Chemicals containing minerals that plants need	Clabal warming	organisms		the need for particles		
	to be healthy	Global warming	The gradual increase in the	Lever	A type of machine which is a rigid bar that		
Haemoglobin	The substance in blood that carries oxygen	Croonbouso gos	temperature of the Earth		pivots about a point. It is a force multiplier		
	around the body	Greenhouse gas	Gases in the atmosphere				
Lactic acid	An acid produced by animals during anaerobic		that trap radiation.eg methane and carbon dioxide	Output force	The force that is applied to the object		
	respiration				moved by the machine		
Magnesium	An element essential for healthy plant growth. It	Mineral	A naturally occurring	Simple machine	A machine such as a lever or pulley system		
	is used to make chlorophyll		mineral or compound		which changes the size of the force by		
Nitrates	Minerals containing nitrogen, used by plants to	Natural resources			moving a force over a bigger or smaller		
	make protein		made and can be found in		distance		
Oxygen debt	Extra oxygen required after anaerobic respiration		the environment	Temperature	A measure of how hot or cold a substance		
	to break down lactic acid	Ore	A naturally occurring rock		is		
Phosphates	Minerals containing phosphorus, used by plants		which has a mineral content	Thermometer	An instrument used to measure		
	to form healthy roots		worth extracting		temperature		
Photosynthesis	The process plants and algae use light energy to	Photosynthesis	The process of plants	Thermal	Thermal conductors contain electrons that		
	make glucose.		transferring light energy to	conductor	are free to move		
Plasma	A liquid that transports blood cells and other		chemical energy	Thermal energy	The energy store associated with an		
	materials around the body	Recycling	The collecting and	store	object's temperature		
Potassium	A mineral needed by plants for healthy leaves		processing of materials so	Thermal	A device used to view an amount of		
	and flowers		they can be used again	imaging	infrared radiation being emitted from an		
Producer	The plant in the food chain that uses light energy	Respiration	The process by which	camera	object		
	and photosynthesis to produce glucose		organisms transfer chemical	Work done	The amount of energy transferred when		
Red blood cells	Blood cells that transport oxygen around the		energy to useable energy		an object is moved over a distance – WD =		
	body		stores		force x distance		



### Science - Keywords

	Organisms	Matter					
Keywords	Definition	Keyword	Definition				
Addiction	A need to keep taking a drug in order to feel normal	Atom	The smallest part of an element that can exist				
Balanced diet	Eating food containing the right nutrients in the correct amounts	Alkali metals	The elements in the left column of the periodic table including				
Carbohydrate	Nutrients that provide the body's main source of energy		lithium, sodium etc. also called group 1				
Carbohydrase	Enzyme that breaks down carbohydrates into smaller sugar molecules	Compound	Pure substances made up of atoms of 2 or more elements strongly joined together				
Catalyst	Substances that speed up chemical reactions but are not unchanged at the end	Displacement	A reaction involving a metal and a compound of a less or more				
Deficiency	A lack of minerals that causes poor health	reaction	reactive metal				
Drug	Chemical substance that affects the way your body works	Element	Substances which contain only one type of atom				
Enzyme	Substances that speed up the chemical reactions of digestion	group	A column in the periodic table. The elements have similar properties				
Exhale	Breathing out, removing carbon dioxide	Group 1	The elements in the left column of the periodic table, including				
Fibre	Food matter that supports movement through the intestines and prevents constipation		sodium and lithium. Also known as the alkali metals				
Gas exchange	The transfer of gases between an organism and its environment	Group 7	Elements in the right column of the periodic table including fluorine and chlorine. Also known as the				
Inhale	Breathing in, to take in oxygen		halogens				
Lipid	A type of fat		Elements in the farthest right column of the periodic table including helium and neon, also known as the noble gases				
Medicinal drug	A drug that has a medicinal benefit to your health	Group 0					
Mineral	Essential nutrient needed in small amounts to keep healthy						
Nutrient	Essential substances that your body needs to survive, provided by	Halogen	An element in group 7 of the periodic table				
Nuthent	food	Noble gas	An element in group 0 of the periodic table				
Protease	Enzyme that breaks down proteins into amino acids	Period	A row in the periodic table				
Protein	Nutrient required for growth and repair	Periou	A row in the periodic table				
Recreational drug	Drug taken for enjoyment	Periodic table	A table which shows all known elements. Elements with similar properties are grouped together				
Respiration	Chemical reaction where energy is released from glucose	Physical properties	Features of a substance that can be observed without changing the				
Respiratory system	Organ system which replaces oxygen and removes carbon dioxide form the blood	Polymer	substance itself A molecule made by joining up thousands of smaller molecules in a repeating patten				
Vitamin	Essential nutrients needed in small amounts for health	ruiyinei					
Withdrawal	Unpleasant symptom a person with a drug addiction suffers from						
symptoms	when they stop taking the drug	Trend	A pattern in properties, such as an increase or decrease				



# THE CORE FOUR



# Number your cards for self-quizzing. use flash cards every day.

THE CORE FOUR REVISION TECHNIQUES

Write your answers down, then check, or say your answers out loud. This clearly shows the gaps in your knowledge.

Do not just copy and reread

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Use your book to look at

knowledge organiser?

Do you have your

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Use a one-word prompt, so that you can recall as

much as you can

.

No extended answer

questions

previous misconceptions from whole class

feedback.

Shuffle the cards each time you use them.

Use the Leitner system to

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# 5. Feedback

How have you performed when you look back at your answers?

- need to revisit in more Is there anything you detail?
- Is your knowledge secure? If so, move on to applying knowledge in that area in specific extended exam questions.

# Brain Dumps



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# Take a blank piece of paper/white board and write down everything you can remember about 2. Write it Down

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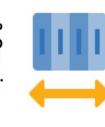
Identify the knowledge / topic area you want to

cover.

Knowledge

1. Identify

Give yourself a timed limit (e.g 10 minutes) that topic (with no prompts)



### cannot remember any more, use different colours to highlight / Once complete and you Information 3. Organise underline words in groups.

This categorises / links information

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# Understanding 4. Check

dump to your Knowledge Organiser or book and check your Compare your brain

Add any key information you have missed (key words) in a different understanding.

colour.

•

ы. Compare Store and

Next time you attempt

Keep your brain dump safe and revisit it.

the same topic, try and complete the same

amount of information in a shorter period of time or add more information.



# THE CORE FOUR



# Knowledge 1. Identify

Select a topic you wish to revise. Have your class notes, knowledge organiser or revision books ready.



# 2 Designing

page and dividing it into 12 chunks. You can also use an existing template from your teacher, or one you can find You can make your own revision clock by drawing a clock in the centre of a online.



# 3. Manageable Chunks

the segments on the page, creating manageable chunks of information. Combine text with images to help retain the Organise your revision notes into 12 sub-topics and make brief notes for each sub-topic into one of information.



# 4. Using Revision

minutes. Turn the clock over and recite the sections out loud or ask someone to Revise each segment for 5 quiz you. 0 locks

minutes and use a blank revision clock with headings, recall as much Alternatively, you can revise certain sections for 5 information as you can in the segments.



# Understanding 5. Check

How have you performed when you compare you answers to what you have written? Is your knowledge secure?

Remember to repeat the process regularly, using different techniques to answer the questions.

Put it somewhere visible for you to use again.

# THE CORE FOUR REVISION TECHNIQUES

# ÷ł Self Quizzing



# Knowledge 1. Identify



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### . 2. Review and Spend around 5 - 10 minutes reviewing Create

content (knowledge organisers / class notes / textbook.)

 Create 10 questions on the content (if your teacher has not provided you with questions already)



 Cover up your knowledge and answer the questions from ω Cover and Answer memory.

• Take your time and where possible answer in full sentences.

> ٠ Go back to the content and self-mark your answers in green pen.











5. Next Time

Revisit the areas where

٠ there were gaps in knowledge and include these same questions next time.

THE CORE FOUR REVISION TECHNIQUES

