Name

Learning Group_

Autumn Term 2023-2024



Year 8 Knowledge Organiser

KNOWledge is power

Art Craft & Design | KS3 | PAGE 1 The Formal Elements of Art

Line, Shape, Tone, Colour, Pattern, Texture and Form are the formal elements of art. Together, these help form a piece of artwork.

1. TONE

Gradient of shading from light to dark. Accurate use of tone helps artwork look realistic and shows form (3D). Using limited tones will make artwork look flat and dull.







Accurate use of tone?

2.COLOUR

Used to create different colours and to create a mood or atmosphere.



Primary colours = Red, yellow and blue Secondary colours = Orange, purple, and areen Harmonious colours = colours next to each other Complementary colours = colours opposite Warm colours = reds, yellows and oranges Cool colours = purples, blues and greens

Monochrome = Using different tones of the same colour

3. PATTERN

Pattern is a design created by repeating lines, shapes, tones or colours. Patterns can be simple or complex and can be man-made, like a design on fabric, or natural, such as the markings on a leaf.



Man-made pattern Natural pattern



4. LINE

Line is the path left by moving a drawing tool such as a pencil. A line can be horizontal, diagonal or curved. Line can be consistent in thickness or it can use thick and thin variation. The way you use line can represent texture, pattern and form.

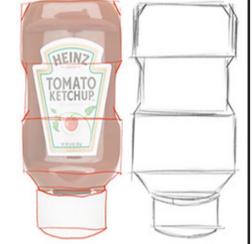
5. TEXTURE Giving you an insight into what the art feels like.

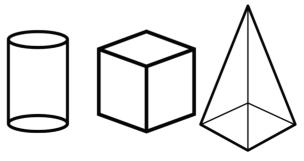


Texture makes your artwork look smooth, rough, fury, bumpy etc. We experience texture in two ways: optically (through sight) and physically (through touch).

6. SHAPE

Shape is a 2D object. We can use shape to help construct artwork by breaking complex objects down into basic shapes before manipulating into the realistic shape. Starting with a structure ensures our outcomes are accurate.





7. FORM

Refers to 3D objects or making 2D work look 3D. You can do this by the way you break down the image into simple shapes.

Art Craft & Design | KS3 | PAGE 2 **Understanding Art**

When we look at a piece of art we judge it by how effectively the artist uses these art principles.



1. LANDSCAPE Art showing the natural world, focusing on the ground and sky as well as natural forms such as trees, mountains, water etc. This is most commonly viewed in a landscape format.



2. PORTRAIT A piece of art such as a photo, painting or drawing showing a person's face. The purpose of a portrait is to show the personality and mood of the person.

3. STILL LIFE

Art that focuses on still objects. Normally with a focus on flowers, household objects, or fruit.



4. FOREGROUND The element within the artwork closest to you is the foreground.

5. BACKGROUND The element within the artwork furthest from you is the background.



6. MIDDLE GROUND

The middle ground makes up the space in between the foreground and the background.

Top tip: when talking about the composition of a piece of art refer to the foreground, background and middle ground.

10. ABSTRACT

8. SCALE

Art that does not represent an accurate image of reality. instead uses shapes, colours and forms to create a distorted outcome.





The size of a piece of artwork or the size of objects within that piece of artwork. Drawing to scale means

down we are making it smaller or

scaling up makes it bigger.

9. CONTRAST

The arrangement of opposite elements. Examples of contrast are light 'v' dark, smooth 'v' rough, large 'v' small. You can see on the image on the left that contrast has been created using colour. The majority of the image is in black and white. However, the apple is contrasting as it is in red.



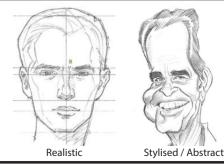
11. REALISTIC Art that represents an accurate image of reality. Essentially drawing what you see in front of you.

7. COMPOSITION

The way different elements within a piece of art are combined. This refers to the key subjects of the artwork and how they are arranged in relation to each other. For example, the composition on the left shows a shell in the foreground. It is placed in the centre with the bottom part of the shell coming off the page. Curved lines wrap around the shell and in the centre of the shell you can see a landscape of a beach / sea scene.

12. PROPORTION

The size of objects in relation to each other. How proportion is used will affect how realistic or abstract something looks.



Art Craft & Design | KS3 | PAGE 3 Understanding Art

13. FOCAL POINT

Used to make a feature within a piece of art stand out. The viewer should naturally be drawn to the focal point. For example, in the image colour has been used to create a focal point, our eye is drawn to the white object first.





14. MOOD

Mood is the emotion / feeling you experience when looking at a piece of art. Types of emotion could be happiness, calm, sadness, or anger. Mood is often shown by the use of colour as we can associate colour with certain emotions / feelings. For example, blue could represent sadness or cold.



15. TYPOGRAPHY Typography is how text is arranged within a piece of art. Typography can show aesthetics, emotions as well as communicating messages.

16. ARTIST RESEARCH

Looking at an artist's work and recording what the artwork is about. Including how the work inspires you as well as including your personal opinion about the artwork.





7. EXPRESSIVE

Showing thoughts / feelings within a piece of art rather than showing a realistic view. This can be conveyed using bold colours, mark making, or tone etc.



18. ART MOVEMENT

A range of titles that are given to artwork / artists which share the same themes, style, technique or timeframe. This can last a few months, years or decades. Art Movements are a way of grouping artists of a certain period or style together.

19. MEDIA / MEDIUM

The materials and tools used by an artist to create their artwork. For example, pen, acrylic paint, watercolour, collage, photography, pencil, oil pastel, charcoal, digital, posca pens, printing ink etc.





20. ANNOTATION

Written comments on your work that explain your thoughts and ideas. Annotation is important as it informs how you achieved a technique, records an idea you'd like to try or It can be used to communicate information to the examiner that helps explain your thoughts and ideas.

21. OBSERVATIONAL STUDY

To draw or paint as accurately as possible. The subject may be a still life, portrait or landscape and the image must be created from real life rather than a photograph or the artist's imagination.



BEFORE



AFTER



22. HIERARCHY

Shows the importance of elements within a piece of art. Hierarchy influences the order in which the audience views the artwork. Order can significantly impact the message people take away from the artwork.

COMPUTER SCIENCE: YEAR 8

TOPIC: ONLINE SAFETY AND INTRODUCTION TO WEB DESIGN

PAGE 1

Online Safety				Web Design		
1	E-Safety	Electronic Safety is about staying safe when you are using computers.	21	What is a browser?	An application used to view web pages, e.g. Internet Explorer or Google Chrome.	
2	Social Engineering	A range of methods to try and manipulate people into handling over person details.	22	What is HTML?	Hyper Text Markup Language. The language used to write and display web page documents.	
3	What is fake news?	Fake news is false information that is shared under the guise of news in order to mislead or deceive others	23	What is a hyperlink?	A link in a document or webpage that connects to another location.	
		Sexting is the sending, receiving or forwarding of	24	What is the Internet?	A global network connecting millions of computers.	
4	What is sexting?	sexually explicit messages or images or other forms of media	25	What is a webpage?	A page designed for, and viewed in, a web browser.	
	НТМ	L tags	26	What is CSS?	Cascading Style Sheets can be used to style web pages	
5	<html></html>	Declares the web page to be written in HTML		Short-c	ut keys	
6	<head></head>	Delimits the page's head	27	Ctrl + A	Select All – selects all the text and images on a document	
7	<title></title>	Defines the title (not displayed on the page)	28	Ctrl + B	Bold – used to make text stand out by making it slightly bigger	
8	<body></body>	Delimits the page's body	29	Ctrl + C	Copy – when used with paste, used to copy text or an image from one place to another	
9	<h1></h1>	Delimits a heading to Size 1	30	Ctrl + I	Italic – used to make text stand out by tilting it forward	
10		Bold	31	Ctrl + N	New – creates a new document	
11	<i></i>	Italics	32	Ctrl + O	Open – opens an existing document	
12	<u></u>	Underline	33	Ctrl + P	Print – sends the document to the printer	
13	<center></center>	Centre On the page horizontally	33		Save – saves any changes to the document that you	
14		A unordered (bulled) list	34	Ctrl + S	have done	
15		A numbered list	35	Ctrl + T	Tab – opens up a new tab	
16	< i> i	An item in an ordered or numbered list	36	Ctrl + U	Underline – used to make text stand out by putting a line under it	
17		Create a new line	37	Ctrl + V	Paste – when used with copy, can place an image or text into a new place in a document or presentation	
18		Starts a new paragraph	38	Ctrl + X	Cut – when used will delete an image or text	
19		Displays an image here	39	Ctrl + Y	Redo – will redo the last instruction that you have completed	
20		Define a hyperlink	40	Ctrl + Z	Undo – will undo the last instruction that you have asked the computer to do	

Drama Year 8 Term 1: Sparkleshark by Phillip Ridley

1. Plot - Fourteen-year-old Jake, the classroom 'geek', takes refuge on the roof of a tower block in order to write his stories. Before long other young people join him and the taunting begins. Although at first he endeavours to hide he learns to fight back in the only way he knows how. Through his fantastical stories, the young people begin to befriend Jake and take part in his storytelling creations.

2. **Structure** - Linear structure.

3. Genre is - Naturalistic, contemporary, bullying, fantasy, storytelling.

Question areas	Context/social/cultural/historical context; aspects of the character; actors' movement and voice; Set design;				
Key words for question areas	4. Context/social/cultural/historical; Date-Place-Issue				
Social/cultural/Historical context	East end of London, late 1990/early 2000s.				

6. Status	(How much power and control a chard	acter has in the scene/play) - Key characters – Key lines and stage directions that impact on the character			
High status	7. Polly	15 years of age, she only joined school with the others last week. She has noticed Jake despite his secluded nature and loves his stories			

	8. Natasha	15 years of age, she has looked after Polly in her first week at school coaching her into how to be popular. She has a troublesome relationship with her father and yearns for his attention.
	9. Russell	A good-looking 15 year old whom many of the girls are attracted to. He bullies Jake, often beating him up with Buzz and Speed.
Low status	10. Finn	Polly's 14 year old brother, he is large and has limited speech and communicative skills but possess extreme strength for his age, which makes most of the other children fearful and often refer to him as "The Monster".
	11. Jake	14 years of age, he is a highly imaginative and creative individual creating stories in a notebook. He however is often bullied by others and dismissed as a geek, resulting in him spending most of his free time at school hiding between the bins.

Characterisation - The act of changing voice, body language, movement, gesture etc when in role. The actor must use their skills to portray a character consistently throughout their performance.				
Movement	13. Pace - fast or slow			
	14. Gesture - a movement of part of the body, especially a hand or the head, to express an idea or meaning			
	15. Gait - walk			

	16. Posture - the position in which someone holds their body					
	17. Facial expression - usually links to an emotion. Tells the audience the character's feelings and what they are thinking					
Voice	18. Pace - fast or slow					
	19. Pause - An actor stops talking for a moment/beat during a line.					
	20. Pitch - high or low					
	21. Tone - reveals an emotion i.e. angry, scared					
	22. Volume - loud or quiet					
	23. Accent - shows where someone is from or gives clues as to their upbringing					

	Staging the Performance					
24. End-on performance space	One audience side. This performance space is similar to a proscenium arch stage. The stage is at one end and the audience face it directly. In this type of stage there is no arch around the edge of the stage to 'frame' it					
25. Blocking	Planning the space and the actor's movement					

26. Set design	What the stage looks like and the furniture. As a set designer you will need to consider the practical			
aspects of set design. The play has lots of fast-paced scenes in various locations, the set of				
to be kept minimal to help with the quick changes				

Set design key words - The set should represent the context of the play.						
27. Themes/symbols	The set design can also communicate abstract concepts, such as themes and symbols. As an example, a design could include a large, dead tree to suggest the themes of death in the play.					
28. Style	Set design is also important in supporting the style of the production. For example, a play in a naturalistic style would aim to create the impression of reality through realistic-looking props and set items. A play performed in a minimalistic style would use just a few, simple props to represent a setting, such as a large, suspended window frame to suggest the performer is standing inside a grand manor house.					
29. Colour	Colour can be used within set design to symbolise various ideas on stage. For example, the set designer for this play could include dull greys and a monochromatic palette (single colour) this could enhance the sad atmosphere and dark themes in the play.					
30. Condition	The condition of a design can reveal important information about the setting or a character's circumstances. For example, shabby, ragged and decaying piles of rubbish might suggest that the area is run down and a waste ground.					

31. Levels	A set designer can vary levels using a rostra, blocks, ramps and/or steps. Blocks, staging units, scaffolding and planks can be used to create levels and can be joined together to create steps or other shapes. Levels are often used in productions to portray a character's status, power or situation.				
32. Projections	Projections- can be used to add detail and texture on stage. Scenery can be projected, for example the pylon and the waste ground, the problem is that if the image is not projected behind the set, the actors will cast shadows onto it.				
33. Position	Where you put the items of set on the stage. Use the correct language upstage ; downstage ; centre stage ; stage left ; stage right ; upstage centre ; upstage left ; upstage right , downstage centre ; downstage left ; downstage right .				
34. Stage furniture	Items of set that can be moved on stage but are not props.				
35. Stage flats	Short for scenery flat which is a flat piece of theatrical scenery which is painted and positioned on stage so as to give the appearance of buildings or other background.				
36. Cyclorama	A large curtain or wall, often concave, positioned at the back of the stage (upstage). It often encircles or partially encloses the stage.				
37. Backdrop	The background image, behind the set, on the back wall of the stage. This can set the imaginary location for the scene.				
38. Location	The set can tell the audience where and when the scene takes place.				

39. Symbolism	Items and actions on stage that represents a message.

TYPES OF TIMBER				В	HARDWC	DOD	PROPERTY	USE
A: NATURAL WOOD:				1.	Beech	and the second se	Does not splinter	Tool handles. Children toys.
<u>D</u> € 1.	Deciduous Trees: 1. With Broad leaves that fall in Autumn.			2.	Oak		Strong & Hard	Flooring, furniture, veneers.
2. 3.	2. Grow for 1/4 of the year			3.	Mahogo	any	Rare from S. Americas, Asia Hard. Expensiv	
4.		duce wood		4.	Teak		Durable. Oily.	Outdoor furniture
5.		Hardwood. Densive.		5.	Balsa		Light weight	Model making
	anifaraus Tr			С	SOFTWO	OD	PROPERTY	USE
 <u>Coniferous Trees:</u> 1. With needles and are evergreen. 2. Grows all year round. 			1	Scots Pine		Knotty. Straigh grained. Cheap.	DIY. Furniture. Door frames.	
3. 4.	Trees grow straight w	hich makes		2.	Spruce		Small hard knots. Not durable.	Indoor white furniture. Bedroom kitchen.
	it easier for the manufacturer to cut long straight planks of wood.			3.	Yellow Cedar	inca	Light weight, stiff stable.	Furniture, boat building, veneers, model making.
5.	Often che	eaper.		4.	European Redwood		Strong, durable when preserved.	e General use, shelves, cupboards, roofs.
D:	-	TURED BOA					Cheap.	
	IMAGE	NAME	ORIGIN					USE
1		Veneer: NOT a manufactur ed board.	1-10 mm thick strips of wood sliced/peeled in a roll from Natural Wood .			on the source wood n type. t		Added to manufactured boards to look expensive and aesthetically pleasing
2		Plywood	Veneer or F from many Natural W Layers are together at	s of d	Strong. Relatively cheap. Varying thickness. Large boards .		Construction, flooring, walls. Usually hidden/covered.	
3		MDF: Medium density Fibreboard	Made from powdered waste wood (80%) plus resin (glue). Dust when cut considered health risk.		%) plus	Varying thickness. Large boards . Smooth surface. Easy to cut.		Furniture doors. Radiator covers. Wardrobes etc. Can be veneered or covered in Melamine to protect it.
4		Chipboard	Made from from Plywa manufactur Uses recyc Plus resin (od re. led v	vood.	Varying thickness. Large boards.		Flatpack furniture. Kitchens. Coated with Melamine for waterproof and hardness .

E :	E: TOOLS:			F: THE DESIGN PROCESS:
	IMAGE	NAME	USE:	 Design Brief or Problem Analysis of Brief or Problem
1		Coping saw	Cutting thin wood and acrylic. Cutting intricate shapes.	 Analysis of Brief or Problem Research Specification using ACCESS FMM
2	4	Spoke shave	Removing thin strips of wood. Creating curves.	 5. Initial designs 6. Final design 7. Task analysis/ plan of
3		Sand Removing edges, shaping, preparation	8. Evaluation	
	15	and block	for painting.	G: ACCESS FMM: is a Mnemonic to help us design.
4	SAL AS	Wood Plane	Stripping layers of wood away. Shaping and smoothing.	Aesthetics Cost
5		Files and rasps	Rasps: Removing excess wood Files: Smoothing and shaping.	Client/Customer/Target Market Group Environment Safety Size
6	O REALE ACCESS The State of the	Tenon saw	Fixed blade for cutting joints	Function Material Manufacturing

H: NEEDS, WANTS AND VALUES: Used to guide our designing; what does the Target Market Group **need**? What can they not live without vs want is desirable.

I: DESIGN MOVEMENTS AND DESIGNERS:			 	
DESIGN MOVEMENT	DATE		MAIN FEATURES	DESIGNERS
ART DECO	1910- 1939		Architectural Symmetry Metallic colours	RAYMOND TEMPLER: Jeweler WILLIAM VAN ALLEN: The Chrysler Building
POP ART	1947- 1960		Graphics Fun Colour	ANDY WARHOL: Graphics, films ROY LICHENSTEIN: graphic-comic style art
MEMPHIS	1980- 1986		Bright colours Shapes Fun Challenging the 'normal'	ETTORE SOTSASS: Furniture, fittings MICHEAL GRAVES: Furniture, Household goods, buildings
BAUHAUS	1919- 1933		Function over form Clean lines Little decoration	MARCEL BREUER: Furniture ANNIE ALBERS: Textiles, rugs

ENGLISH	YEAR 8

NON-FICTION

		KEY VOCABULARY			
1	Non-fiction	A piece of writing that is about real events and facts.	6	Tone	The general character or attitude of a piece of writing- how does it sound?
2	Leaflet	A sheet containing information or advertising.	7	Persuasive	Convincing someone to do or believe something through reasoning or temptation.
3	Articles	A piece of writing on a particular subject usually included in a newspaper or magazine.	8	Intention	A thing intended; an aim or plan.
4	Letter	A written, typed, or printed communication, sent by post or messenger.	9	Figurative	Words not used in their literal sense; metaphorical language.
5	Speeches	A formal talk delivered to an audience.	10	Comparison	A consideration of the similarities or dissimilarities between two people or things.
		words used to start and to end conversations. Some are used or to change topics.		•	oreover, on the other hand, secondly, thirdly, in conclusion, imation, lastly, next, also, however.

	DAFOREST Technique	Definition	Example
11	D irect When the writer speaks directly to the reader, using 'you'. Address		Thank <u>you</u> all for listening.
12	Alliteration	When a group of words all begin with the same consonant sound.	The <u>b</u> onny <u>b</u> ride <u>b</u> eamed <u>b</u> eautifully.
13	F act Something which can be proven as true.		A cat has 32 muscles in each ear.
14	O pinion	Somebody's thoughts and ideas about something.	Batman is better than Superman.
15	R hetorical Question	A question asked for effect and which does not need an answer.	Is this who we are as a society?
16	E motive Language	Words used to create particular feelings or emotions in readers.	The <u>poor</u> soldier returned <u>wearily</u> from the war <u>traumatised</u> and <u>troubled</u> .
17	S tatistics	Using data to prove your point.	75% of students want longer holidays.
18	T riplet	When you list three objects or things in a row.	The student is <u>hardworking</u> , <u>diligent</u> and <u>organised</u> .

NON-FICTION SPELLING WORDS

You'll need to know how to spell all of these for your spelling tests- get revising!

1. Article: A piece of writing on a particular subject usually included in a newspaper or	31. Brochure: A small book or pamphlet containing pictures or information about a
	product or service.
2. Narrative: A spoken or written account of connected events.	32. Specific: Clearly defined or identified.
3. Community: A group of people living in the same place or having a particular characteristic in common.	33. Astonishing: Extremely surprising or impressive
4. Whereas: In contrast or comparison to something.	34. Inquisitive: Having or showing an interest in things.
5. Infer: To deduce something from a piece of evidence.	35. Relative: Considered in relation to something else.
6. Possession: Something that you own.	36. Demonstrative: Unrestrained display on feelings.
7. Statement: A clear expression of something through speech or writing.	37. Recognise: Acknowledge the existence, validity or legality of.
8. Invaluable: Something extremely useful or priceless.	38. Informative: Providing useful or interesting information
9. Superfluous: Unnecessary, more than enough.	39. Transparency: The quality of being easy to perceive or detect.
10. Ambitious: A strong desire to succeed.	40. Apprehensive: Anxious or fearful that something bad or unpleasant will happen.
11. Opinion: A judgement not based on fact or evidence.	41. Persuade: Compel someone to do something through reasoning or argument.
12. Discourse: Written or spoken communication or debate.	42. Quotation: A group of words taken from a text or speech and repeated by someone
	other than the original author or speaker.
13. Simile: Comparing one thing to another using 'like' or 'as'.	43. Summary: A brief statement or account of the main points of a subject.
14. Success: The accomplishment of an aim or purpose.	44. Necessary: Needed to be done or achieved.
15. Retrospect: A review of past events or period of time.	45. Technique: A way of carrying out a particular task, especially the execution or
	performance of an artistic work or scientific procedure.
16. Implicit: Something suggested, but not directly said.	46. Environment: T he surroundings or conditions in which a person, animal, or plant lives or operates.
17. Subsequently: After a particular event has occurred.	47. Comparatively: To a moderate degree as compared to something else.
18. Versatile: The ability to adapt to a variety of functions or activities.	48. Alliteration: The occurrence of the same letter at the beginning of adjacent or closely connected words.
19. Compromise: An agreement made with each side adjusting.	49. Questionnaire: A set of printed or written questions with a choice of answers.
20. Exaggerate: To represent something being larger, better or worse than it actually it.	50. Undoubtably: Without doubt; certainly.
21. Statistically: According to or by means of statistics.	51. Onomatopoeia: A word that sounds like how it is spelled.
22. Analyse: Examining something in detail to try and explain or interpret it.	52. Illustrate: To serve as an example of.
23. Comparative: Judging the similarity or dissimilarity of one thing against another.	53. Rumour: A currently circulating story or report of uncertain or doubtful truth.
24. Synthesis: The combination of components to make a whole.	54. Emphasise: Give special importance or value to something in speaking or writing.
25. Furthermore: In addition to.	55. Integrate: To combine (one thing) with another to form a whole.
26. Personification: Giving a non-human or inanimate object human-like qualities.	56. Proposition: A statement or assertion that expresses a judgement or opinion.
27. Throughout: In every part of a place or object.	57. Esteem: Respect and admire.
28. Solicit: To ask for or try to get something from someone.	58. Grateful: Feeling or showing an appreciation for something done or received.
29. Hyperbole: Exaggerated statements not meant to be taken literally.	59. Acclaim: Praise enthusiastically and publicly.
30. Correspondence: Communication by exchanging letters, emails or other messages.	60. Colloquial: Language used in ordinary conversation; not formal or literary.

FOOD: YEAR 8TOPIC: FOOD PREPARA		ATION /	AND NUTRITION	PAGE 1	
SKILLS	& TECHNIQUES				
1	Make a dough	Bread- Kneading, proving, shaping	10		I. Conduction
2	Use of raising agents	Biological raising agents - yeast, chemical raising agents - baking powder		What are the 3 types of heat transfer?	II. Convection III. Radiation (infra-red and microwave)
3		I. To aid digestion,			AFETY
	Why do we cook food?	II. To improve palatability (taste, texture and appearance),	11	Core temperature	Food must be cooked to 75C to kill bacteria
III. To avoid food contamination NUTRITION		12	How should dry foods be stored?	At room temperature in air tight containers	
4	Macronutrients	Protein, Carbohydrate & Fat	13	How should chilled foods be stored?	In a fridge between 0-5C
5	Micronutrients	Vitamins & Minerals	14	How should frozen foods be stored?	In a freezer at - 18C
6	Eatwell guide	Visual tool showing how much of each food group to eat for a balanced diet	15	What is the danger zone?	Between 5 & 63 C Bacteria can reproduce quickly
	FC	OOD SCIENCE		PROVENANCE & SU	STAINABILITY
7		When starch carbohydrate is heated in a liquid the starch	16	Food waste	Store food correctly, use in date order, use left overs
	What is gelatinisation	granules soften and absorb water and the mixture thickens eg a	17	3 R's	Reduce, re-use, recycle
		cheese sauce	18	Provenance	Where food is grown, raised, or
8	What is caramelisation	When sugar is cooked and turns brown	19	Sustainability	Producing food in a way that
9	What happens to protein when cooked	It coagulates, eg egg white			protects the environment, makes efficient use of natural resources

GEOGRAPHY YEAR 8

TOPIC: TECTONICS

	Composit	ion and structure of the Earth		Earthquakes		
1	How many layers of the Earth are	Four. The inner core, outer core, mantle and crust.	14	What is an earthquake?	The shaking of the earth as plates move.	
2	there? Inner core:	Solid, metal, extremely hot.	15	What is the focus?	The point at which an Earthquake starts.	
3	Outer core:	Liquid metal, very hot.	16	What is the epicentre?	The location on the surface of the Earth directly above the focus.	
4	Mantle:	Thickest layer plastic rock.		What are the	Predict, Protect and Plan for an earthquake.	
5	Crust	Solid, thinnest layer.	17	three Ps?	Predict, Protect and Plan for an earinquake.	
6	What is the 3 spheres of the Earth?	The atmosphere (air layer), the lithosphere (the rock layer) and the hydrosphere (the water layer).	18	What does evacuate	Where groups of people leave an area.	
		Tectonic Plates		mean?		
7	What is a tectonic plate?	It is a piece of the crust.	19	What is the Richter scale?	This is the scale which measures how powerful the Earthquake is from 1-10.	
8	What is plate boundary?	The site where two plates meet.				
9				Volcanoes:		
10	current? Convergent	crust. Where the oceanic plate sinks below the	20	What is a volcano?	An opening in the crust where lava/ash/gas erupt.	
	plate boundary (oceanic and	continental plate.	21	Two type of volcano?	Composite and Shield.	
11	continental) Convergent	Two continental plates collide and forced	22	What is pyroclastic	A hot fast moving 'cloud' of ash gas and lava.	
	plate boundary (continental and	upwards. Fold mountains are formed and some earthquake activity.	23	flow What is a Jahar	A mudflow.	
	continental)		24	What is the crater?	Opening at the top of the volcano.	
12	Divergent plate boundary	Two plates move apart. Magma from the mantle rises up. New crust is formed creating shield volcanoes, ocean ridges	25	What is the vent?	The tube that connects the magma chamber and the crater.	
13	Conservative plate boundary	and rift valleys. Two plates slide next to each other.	26	What is the magma chamber?	Area under the volcano full of liquid rock.	

GEOGRAPHY YEAR 8 UNIT 2: COASTS

			COASTS AND WAVES:		COASTAL PROCESSES:		
1	Name the two typ of waves?	bes	Constructive waves and Destructive waves.	13	What is erosion?	The process of breaking down of rock and sediment in the sea/ ocean.	
2	What affects the s	size	Fetch- the distance the wave travels across along	14	What are the four types of erosion?	Abrasion, Attrition, Solution and Hydraulic Action.	
	of waves?		the surface. Strength of the wind. Duration – how long the wind blows for.	15	What is abrasion?	Rocks and sand in waves are thrown against the cliff, grinding it down like sandpaper.	
			, , , , , , , , , , , , , , , , , , ,	16	What is attrition?	Waves smash rocks and pebbles into each other, they break and become smoother.	
3	Characteristics of constructive wave		Smaller wave height. Weak backwash strong swash. Builds beaches gentle beach profiles.	17	What is hydraulic action?	Water is forced into cracks in the rock, under pressure, breaking them apart.	
4	Characteristics of destructive wave?		Taller wave height. Strong backwash weak swash. Builds beaches steep beach profiles.	18	What is solution (erosion)?	The acids in the sea water slowly dissolve some types of rock such as chalk or limestone.	
						COASTAL PROCESSES:	
5	What creates a wave?		Surface winds dragging over the surface of the sea.	19	What is transportation?	The process of sediment moving in the sea/ ocean.	
6	What is a coast?	? An area where the land meets the sea.		20	What is are the four types of	Traction, Solution, Suspension and Saltation	
7.	Define swash?		The water rushing up the beach		transportation?		
8.	Define backwash		The water rolling back down the beach	21	What is solution (transportation)?	Solution is when the coastal water has sediment (fine invisible particles) dissolved in it.	
			COASTAL FEATURES:	22	What is traction?	Traction is when the coastal water rolls the	
9.	What is a wave- cut platform?		n flat erosional feature on the coast. Made of hard ck. Includes characteristics such as wave cut notch.		What is suspension?	sediment (in this case big rocks) along the sea bed.	
	What is a cave,		rosional feature where a headland becomes a	23		sediment in the body of the water.	
10.	arch, stack, stump?	-	e, arch, stack, stump.	24	What is saltation?	Saltation is when the water transports sediments and rocks by them bouncing along the sea floor.	
11.	What is a headland and		dlands are hard rock which stick out in the into the Bays are soft rock which is eroded backwards into	25	What is deposition?	The process where sediments are dropped.	
	bay? the land.				COASTAL MANGEMENT:		
12.			n climates but with rainfall around 30- 45° north and n of the Equator. Such as Italy, in Europe.	26	What is coastal management?	Coastal management is managing coasts from threats such as erosion through defences.	
	bay?	5001	TOT THE EQUATOR. SUCH AS HALV, IT EUROPE.	27	What is soft engineering?	Sea defences which work with the natural processes to reduce coastal erosion.	
				28	What is hard engineering?	Sea defences which use artificial structures to management coastal erosion.	
				29	What is coastal conflict?	Disagreements or conflicts between groups of people who have various interests in the coast and its management.	

HISTORY YEAR 8

	KEY WORDS					
1	Civil War	a war between opposing groups within one country / territory.				
2	Protestant	one branch of the Christian Church, separated and different from the Catholic Church.				
3	Catholic	one branch of the Christian Church, led by the Pope.				
4	politics	anything related to how a country is led / governed and by whom.				
5	wealth	a large amount of money / possessions.				
6	tax	money paid by the people to the monarch / government / church.				
7	democracy	a system of government where the people vote to choose who leads/governs them.				
8	tyrant	a cruel and oppressive ruler.				
9	monarchy	a person who reigns over a kingdom / empire.				
10	Puritan	an extreme type of Protestant – wanted to purify / simplify the Church of England.				
11	debate	a discussion between two people or groups who disagree on an important subject.				
12	propaganda	information used to purposely influence people to believe in a certain cause / ideology.				
13	autocracy	a system of government where one person / group has absolute power.				
14	Parliament	the name often given to the government in democratic countries.				
15	regicide	the murder of a monarch.				

EQ 8.1 English Civil War

	KEY PEOPLE					
16 King Charles I Monarch of Britain 1625-1651						
17	Oliver Cromwell	MP and Lord Protector of Britain 1653-1655				
18	Parliamentarians (roundheads)	Supporters of Parliament during and after the English Civil War.				
19	Royalists (cavaliers)	Supporters of Charles and the Royal family during and after the English Civil War.				

	KEY EVENTS						
20 The beginning of the English Civil War		1642					
21	The end of the English Civil War	1652					
22	The regicide of Charles I	1649					
23	Massacres in Ireland led by Oliver Cromwell	1649-50					

		CORE KNOWLEDGE
24	What was the Divine Right of Kings?	The belief that monarchs receive their authority from God / are chosen by God, and so cannot be questioned.
25	What were three causes of the English Civil War?	(1) Charles I promoting Catholic ideologies in England (2) Charles I increasing taxes e.g. Ship Tax (3) Charles I suspending / dissolving Parliament and ruling autocratically.
26	How did the English Civil War begin in 1642?	Parliament raised an army against Charles I so Charles I declared war on Parliament.
27	Give three ways that civilians were impacted by the English Civil War.	(1) Press gangs kidnapped and forced men to fight (2) Significant increase in beggars due to poverty (3) Family and geographical divides were created due to people supporting opposing sides.
28	Why was the printing press important during the civil war?	It enabled both sides to share information more quickly, particularly propaganda.
29	How did gender roles change during the English Civil War?	Women had greater authority over their home and areas for the first time. Women were also targeted for propaganda purposes.
30	Why was the Battle of Naseby decisive?	1,000 Royalists were killed and 5,000 were taken prisoner. King Charles I lost his best officers, troops and artillery. The Royalists lost the war completed one year later.
31	Why was Charles I killed?	He lost the English Civil War and then refused to accept Parliamentary authority.
32	What did Cromwell do as Lord Protector?	He dissolved Parliament and ruled autocratically, but called himself Lord Protector rather than King.
33	How did Cromwell impact Scotland and Ireland?	In Ireland, he ordered massacres of Catholics. In Scotland he invaded as Charles I's son was trying to restart the English Civil War.

HISTORY YEAR 8

		KEY WORDS
1	politics	anything related to how a country is led / governed and by whom.
2	society	anything related to the people in a place and how they live their lives.
3	The Enlightenment	a movement encouraging people to support reason / science and move away from tradition / religion.
4	revolution	to forcibly remove the people in control of a country in order to create political and social change.
5	oppression	prolonged cruel treatment of people.
6	democracy	a system of government where the people vote to choose who leads / governs them.
7	tyrant	a cruel and oppressive ruler.
8	social class	society divided into economic groups e.g. upper class, middle class, working class.
9	government	a group of people who have the power to make decisions for a territory / country / state.
10	protest	a statement or action that shows that people are against something.
11	puritan	an extreme type of Protestant – wanted to purify / simplify the Church of England.
12	suffrage	having the right to vote.
13	colony	a territory / country controlled by another country.
14	Empire	a group of territories / countries under the control of one country / ruler.
15	Monarchy	a person who reigns over a kingdom/empire.

EQ 8.2 Age of Revolution

		KEY PEOPLE
16	King George III	King of Britain 1738-1820
17	George Washington	American Military officer and First American President 1789 to 1797
18	Louis XVI	King of France 1754-93
19	Napoleon	Emperor of France 1804

	KEY EVENTS	
20	Age of Revolution	Late 17 th Century to 1815.
21	Start of British colonies in America	1607
22	The Declaration of Independence	1775
23	Louis XVI gathering the estates to raise taxes	1789
24	Louis XVI executed and the reign of terror started	1793

		CORE KNOWLEDGE
25	Why did the Enlightenment start?	There was an increase in education and knowledge. People began to question who was in control and why.
26	Who moved over to 13 colonies of America?	British Puritans fleeing religious persecution.
27	What happened in the Thirteen Colonies between 1620 and 1776?	When George III becomes king, he increases the amount of tax that America paid. The Tea Act 1773 forced America to only buy British tea, The tea was then thrown into Boston Harbour as an act of protest.
28	What was the Declaration of Independence?	An agreement that America was officially independent from British control. "All men are created equal."
29	How many estates were there in France? What were they?	Three – the 1 st Estate was the clergy (churchmen); the 2 nd Estate was the nobility; the 3 rd Estate was the commoners (everyone else.)
30	What happened during the reign of terror?	King Louis XVI and the entire royal family were killed along with 17,000 others.
31	Who became leader and stopped the French Revolution?	Napoleon.
32	The ideas of the revolution then spread to which country?	Haiti in 1793
33	Give 2 examples of positive British reaction to the revolutions.	It encouraged discussion of suffrage and equality in Britain. Paine wrote books called the Rights of Man which focused on progressive political ideology.
34	Give 2 examples of negative British reaction to the revolutions.	British people did not agree with the killing of monarchs. Many wanted gradual change rather than sudden change as a result of revolution.

HISTORY YEAR 8

KEY WORDS when you officially stop / end something. abolition 1 agency taking action to encourage change. 2 enslavement the act of forcing someone into slavery. 3 people who are forced to work for an owner without pay. enslaved people 4 grouping humans based on common physical traits, e.g. skin race 5 colour. rebellion openly opposing (going against) something. 6 trade the buying and selling of goods and services. 7 when you overthrow the government / social order by revolution 8 force. petition a formal written request signed by many people to try to 9 change something. to purposely refuse to take part in something as a boycott 10 punishment or protest. a group of territories / countries / societies under the control empire 11 of one ruler. cruel and unjust treatment to a particular group over time. oppression 12 (persecution) Act / law A legal rule that has been agreed and should be followed. 13 Someone involved in public campaigning to end abolitionist 14 slavery The second voyage of the Trade Triangle, from Africa to the The Middle Passage 15 West Indies. Fields where crops were grown. Crops grown included plantation 16 tobacco, cotton and sugar cane.

EQ 8.3 Enslavement

		KEY PEOPLE	
17	Olaudah Equiano	Freed slave who lived in London as a prominent anti-slavery	campaigner
18	William Wilberforce	MP who led campaign to ban slavery	
19	Toussaint L'Ouverture	Leader of the rebellion on St Domingue (Haiti)	
20	Harriet Tubman	Escaped enslaved woman who helped others on the underground r	ailroad
	-	KEY EVENTS	
21	John Hawkins becomes the first kno	own British person to buy and sell enslaved people	1562

22	The Committee for the Abolition of the Slave Trade was established in London	1787
23	'The Interesting Narrative of the Life of Olaudah Equiano, Or Gustavus Vassa, The African' was first published	1789
24	Haitian Revolution	1791-1801
25	The Slave Trade Act banned the movement of enslaved people from being traded	1807
26	The Slavery Abolition Act banned the purchase or ownership of enslaved people within the British Empire	1833

		CORE KNOWLEDGE
27	What were three typical plantation crops?	Sugar, Cotton and tobacco.
28	What was the Transatlantic Slave Trade?	The movement of goods and enslaved people between Britain, Africa and the Americas.
29	Give three ways that enslaved people resisted their oppressive treatment.	(1) singing songs (2) running away (3) taking part in revolution / rebellion
30	What revolution was Haiti inspired by?	The French Revolution - white men and women believed it meant they had a right to own enslaved people. Enslaved people believed they should be freed from enslavement.
31	What were two consequences of the Haiti Revolution?	 Haiti became independent from France (2) to gain their independence, Haiti had to pay France 150 million francs (3) the Haitians also had to provide a 50% discount on all products sold to France.
32	Give two reasons why Olaudah Equiano was significant to abolition.	First former enslaved person to write a book about their experiences in enslavement. Spoke at abolition events about his experience of enslavement.
33	Give two reasons why Harriet Tubman was significant.	Escaped to freedom. Worked on the Underground Railroad to help around 70 people escape to freedom.
34	Give two reasons why William Wilberforce was significant to abolition.	Brought Private Members Bills to try and ban enslavement. Brought the 1807 Slave Trade Act to Parliament.
35	Give two reasons why enslavement was abolished in Britain in the 19 th Century.	Agency- people such as Olaudah Equiano showed that people did not want to be enslaved and they were prepared to fight against it. Abolition- people in Britain becoming more anti-enslavement by refusing to use products created by enslaved people/

SPANISH YEAR 8 - 8.1

MIS VACACIONES

A Time phrases and verbs	-			B Destinations, people and transport	
Normalmente (Normally)		voy (I go)			
Generalmente (Generally)			a España (to Spain)	con mi familia (with my family)	en avión (by plane)
En el verano (In the summer)]	vamos (we go)	a Escocia (to Scotland)	con mis padres (with my parents)	en coche (by car)
En el invierno (In the winter)			a Gales (to Wales)	con mis abuelos (with my grandparents)	en barco (by boat)
La semana pasada (Last week)	de vacaciones (on holiday)	fui (I went)	· · ·		
El año pasado (Last year)			a Italia (to Italy)	con mis primos (with my cousins)	en metro (by underground)
El verano pasado (Last summer)		fuimos (we went)	a Grecia (to Greece)	con mis amigos (with my friends)	en autocar (by coach)
En el pasado (In the past)					
El próximo año (Next year)		voy a ir (I'm going to go)	a Alemania (to Germany)	con mi clase (with my class)	en tren (by train)
El año que viene (Next year)			a los Estados Unidos (to the USA)		
El próximo verano (Next summer)		vamos a ir (we're going to			
		go)	a Irlanda (to Ireland)	con mi instituto (with my school)	en tranvía (by tram)
El verano que viene (Next summer)		me gustaría ir (I would like to go)	a Turquía (to Turkey)		

	c	Holiday activities	
Por la mañana (In the	saqué fotos (l took photos)	per la tarde (in the afterneen (avening)	tomé el sol (I sunbathed)
morning)	visité monumentos (I visited monuments)	por la tarde (In the afternoon/evening)	descansé en la playa (l rested on the beach)
Drimoro (First)	visité museos (I visited museums)	lunger (there)	nadé en el mar (l swam in the sea)
Primero (First)	compré una camiseta (l bought a t-shirt)	luego (then)	escribí SMS (I wrote texts)
	mandé mensajes (I sent messages)	dospués (after)	comí comida local (l ate local food)
	monté a caballo (l rode a horse)	después (after)	bebí limonada (I drank lemonade)
El primer día (On the first day)	monté en bicicleta (l rode a bike)	el segundo día (on the second day)	conocí a un/a chico/a guapo/a (I met an attractive guy/girl)
	bailé (I danced)		salí con mi hermano (I went out with my brother)
	canté karaoke (I sang karaoke)	el último día (on the last day)	vi un castillo interesante (I saw an interesting castle)

SPANISH YEAR 8 - 8.1

|--|

			1	
D Weather				
Hizo sol (It was sunny)	Hizo viento (It w	Hizo viento (It was windy)		
Hizo frío (It was cold)	Hubo tormentas (l	It was stormy)		
Hizo calor (It was hot)	Hubo niebla (It v	was foggy)		
Hizo buen tiempo (It was good weather)	Llovió (It ra	uined)		
Hizo mal tiempo (It was bad weather)	Nevó (It sno	owed)		
		E Opini	i	ons and reasons
Me gustó (I liked it)	Me gustó (I liked it)		_	
Me encantó (l loved it)	porqui		11	
Me fascinó (It fascinated me)		porque (ļ	Jecouse)
¡Lo pasé bien! (I had a good time	<u>)</u>		_	
¡Lo pasé genial! (l had a great tin)e)			
		va que (n	because)
¡Lo pasé bomba! (l had a great time!)		ya 40e (•	Jecuise
No me gustó (I didn't like it)				
Lo odié (I hated it)		nuesto qui	e	e (because)
Me aburrió (It bored me)			,	
Me decepcionó (It disappointed r	ne)		_	
¡Lo pasé mal! (I had a bad time	.)	_		
¡Lo pasé fatal! (I had an awful tim	ell	dado que	÷	(because)
	.,			

A Uses of the phone				
	normalmente (normally)	saco fotos (I take photos)		
Con mi mávil (With my phono)	generalmente (generally)	hablo por Skype (I talk on Skype)		
Con mi móvil (With my phone)	durante la semana (during the week)	hago videollamadas (I do videocalls)		
	los fines de semana (on the weekends)	mando SMS/mensajes (I send messages)		
	siempre (always)	mando correos (I send emails)		
Can mitablata (With my tablat)	todos los días (every day)	descargo música/melodías (I download music/ringtones)		
Con mi tableta (With my tablet)	a menudo (often)	descargo películas (I download films)		
	a veces (sometimes)	descargo aplicaciones (I download apps)		
	de vez en cuando (from time to time)	chateo con mis amigos (I chat with my friends)		
Con mi ordenador (With my computer)	dos o tres veces a la semana (2 or 3 times a week)	escucho música (I listen to music)		
Contra ordenador (wint my comporer)	casi nunca (almost never)	veo películas (I watch films)		
	nunca (never)	comparto vídeos (I share videos)		
	tenerlo (I don't have a phone but I want to have one)	juego en línea (I play online)		
	reneno (i don i nave a prione bor i wani lo nave one)	leo libros electrónicos (l read e-books)		

SPANISH YEAR 8 - 8.2

LA TECNOLOGÍA

B Opinions on apps								
Me gusta (l like)	o l lipatoror.					relajante (relaxing)	
Me encanta	(I love)	<u>el</u> Instagro	am	porque (because)				divertido (fun)
Me fascina (I'm fo	ascinate by)	<u>el</u> WhatsA	22					emocionante (exciting)
Me divierte (I ha	ve fun on)	<u>ei</u> whatsA	,pp					interesante (interesting)
Me mola (l	love)	<u>el</u> Facebo	nok.	ya que (bec	:ause)			genial (great)
Me chifla (I	love)							guay (cool)
Me interesa (I'm in	iterested by)	<u>el</u> Spotif	N .					increíble (incredible)
Prefiero (I p	refer)	<u>ei</u> spom	y debido a que (because)		because)			útil (useful)
Mi aplicación favorita es (My favourite app is)	<u>el</u> Netfli	×					barato (cheap)
			^					ácil de usar (easy to use)
No me gusta (l o	don't like)	<u>el</u> Tiktol	puesto que (because)		es (it's)	estresante (stressful)		
Me aburre (l'm	bored by)						aburrido (boring)	
Odio (I ho	ate)	<u>el</u> Twitte	er					inútil (useless)
Datasta (I d				dado que (because)				caro (expensive)
Detesto (I d	elesi)	<u>el</u> Youtuk	be				di	fícil de usar (difficult to use)
				D TV sł	hows			
Creo que (I believe that)	los programas de r programi	•			educativos	/as (educational)		los concursos (game shows)
Pienso que (I think that)	los programas de d programi			más (more)	diverti	dos/as (fun)	que (than)	los documentales (documentaries)
Me encantan (l love)	los telediarios (the news)	son (are)		emocion	antes (exciting)		las comedias (comedies)
Me molan (I love)	los realitys (rea	ity shows)	5011 (GIO)		interesantes (interesting)			las series policíacas (police series)
Prefiero (I prefer)	las películas de ciencia-ficción (sci-fi films)			menos (less)	gracios	os/as (funny)	que (than)	as telenovelas (soap operas)
No me gustan (I don't like)					informativo	s/as (informative)		las películas de amor (love films)
	las películas de acci	án (action films)	porque son		estúpid	os/as (stupid)		
Detesto (I detest)	ius peliculas de accl		(because		infanti	les (childish)		las películas de terror (horror films)
			they are)	tan (as)	aburrid	o/as (boring)	como (as)	

C Music					
Escucho (I listen to)	de todo (everything)		tiene ritmo (it has rhythm)		
Me gusta (I like)	la música de ('s music)		está de moda (it's fashionable)		
Me encanta (l love)	la música clásica (classical music)		me hace bailar (it makes me dance)		
Me fascina (I'm fascinated by)	la música electrónica (electronic music)		me hace cantar (it makes me sing)		
Me divierte (I have fun with)	la música pop (pop music)		me gustan sus letras (I like the lyrics)		
Me mola (I love)	la música latina (Latin music)		me relaja (it relaxes me)		
Me chifla (I love)	el reguetón (regueton)		es aburrido/a (it's boring)		
Me interesa (I'm interested in)	el hip hop (hip hop)		es desagradable (it's unpleasant)		
Prefiero (I prefer)	el rock (rock)		es repetitivo (it's repetitive)		
Mi música favorita es (My favourite music is)			está sobrevalorado/a (he's/she's/it's overrated)		
No me gusta (I don't like)		ya que (because)	tiene talento (he's/she's talented)		
Me aburre (I'm bored by)	la música de los años setenta (70's music)		canta/baila muy bien (he/she sings/dances well)		
Odio (I hate)			es entretenido/a (it's entertaining)		
Detesto (I detest)			es maravilloso/a (it's marvellous)		
Mi cantante favori	to es (My favourite singer is)		es un artista completo (he's a well-rounded artist)		
Mi grupo favorito	Mi grupo favorito es (My favourite group is)		es una artista completa (she's a well-rounded artist)		

PE YEAR 7&8 TERM 1.1.1

PAGE 1

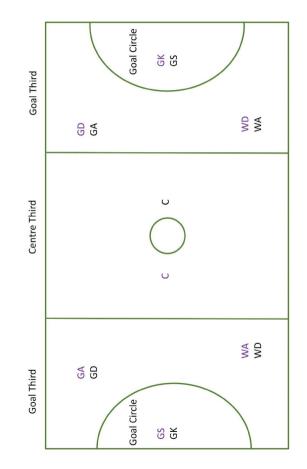
NETBALL

		KEY WORDS
1	Goal Keeper	Allowed in the defensive goal third and shooting circle.
2	Goal Defence	Allowed in the defensive and centre thirds, and the shooting circle.
3	Wing Defence	Allowed in the defensive and centre thirds, but not the shooting circle.
4	Center	Allowed in all thirds, but not in either shooting circle.
5	Wing Attack	Allowed in the attacking and centre thirds, but not the shooting circle.
6	Goal Attack	Allowed in the attacking and centre thirds, and the shooting circle.
7	Goal Shooter	Allowed in the attacking goal third and shooting circle.

		KEY RULES
8	Footwork	Footwork is called when a player moves and replants their landing leg.
9	Contact	Contact is called when a player impedes an opponent in a way that prevents them from moving freely.
10	Held Ball	A held ball is when a player holds onto the ball for more than 3 seconds before passing or shooting.

Netball

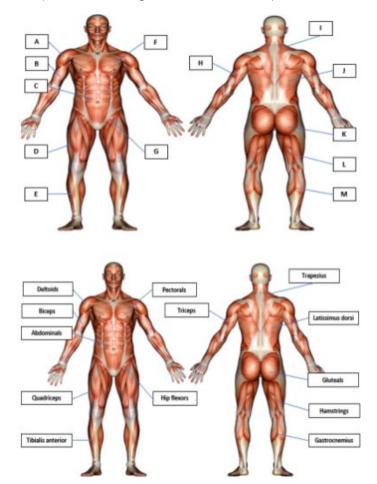
See below for netball positions and court layout.



PE YEAR 7&8 TERM 1.1.2

Muscles

Identify A-M on the diagram of the muscular system below



Types of Media					
	KEY WORDS				
1	Television - Freeview	Channels that come built into modern TV sets that can be watched for free with no subscription charges.			
2	Radio	Provides information about sport in great details. Radio is listened to and therefore 'paints a picture' for the listener.			
3	Pay-Per-View	A service provided by a broadcaster where subscribers pay to which particular events.			
4	Websites	Provide information online on various topics and the latest news.			
5	Newspapers	Publications including news, articles, and advertisements, usually issued daily or weekly in printed form.			
6	Magazines	A publication which is issues weekly or monthly and contains articles, stories, pictures and adverts.			
7	Books	A printed work of fiction or nonfiction.			
8	Podcasts	A digital audio recording available to download.			
9	Streaming	Online broadcast that is record and broadcasted at the same time.			
10	Social Media	Interactions among people in which they create, share, and/or exchange information and ideas in virtual communities and networks.			

PE YEAR 7&8 TERM 1.2.1

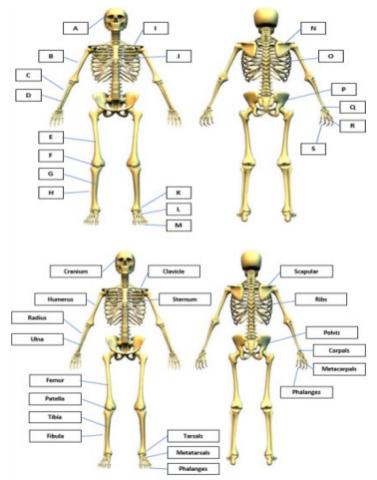
rage.

RUGBY			RUGBY		
		KEY WORDS			KEY RULES
1	Tackle	Occurs when the ball carrier is held by an opponent and brought to the ground.	9	Offside	Occurs when a player is further forward than their teammate who is carrying the ball.
2	Ball Carrier	Is a player who is in possession of the ball.	10	Ruck	Is formed when at least one player from each team are in contact, on their feet
3	Present	Occurs when a player has been tackled and directs the ball to their teammates.			and over the ball which is on the ground.
4	Turnover	When the ball possession is transferred to the defending team from the attacking team.	11	Scrum	Scrums involve eight players from each team, who bind together and push shoulder to shoulder against one another.
5	Attacking Line	Is where the attackers line up behind the ball carrier often in a diagonal deep line.	12	Knock On	When a player loses possession of the ball and it goes forward, or when a player hits the ball forward with the
6	Defensive Line	Is where the defenders line up opposite			hand or arm.
		the attacking team with equal distance between them.	13	Line out	Is a way of restarting play after the ball has gone into touch (off the side of the
7	Forwards	Is when the direction that the ball			field of play).
		carrier should travel in towards the oppositions try line.		Penalty	Is awarded if foul play by the opposing team prevents a probable try from
8	Backwards	Is the direction that the ball should be passed in, back towards your teammates.			being scored.

PE YEAR 7&8 TERM 1.2.2

BONES

Identify parts A-S on the diagram of the skeletal system below.



	Commercialisation				
	KEY WORDS				
1	Commercialism in sport	Making a profit from sport.			
2	Sports Benefit	Increased revenue helps sportspeople and sports organisations increase participation, improve performances and attract support. Also sports gain more coverage so can further increase in popularity.			
3	Media Benefit	High profile sports stories help to attract audiences, listeners and readers. In turn, the media makes sure that sport keeps a high profile.			
4	Sponsors Benefit	Sponsors funding is essential for sport's growth. In return, high profile coverage of sport ensures a high profile for their companies. Leading to more profits.			
5	Interdependency	Need for each other. There is a interdependency between sport, media and business (sponsors).			
6	Golden Triangle	The golden triangle shows the relationship between sport, the media and sponsorship. It represents the commercial (money-making) nature of sport.			

		Keywords
1	Sacraments	Rites and rituals through which the believer receives a special gift of grace; for Catholics, Anglican and many
		Protestants, sacraments are 'outward signs' of 'inward grace'.
2	Holy Communion	A service of thanksgiving in which the sacrificial death and resurrection of Jesus are celebrated.
3	Eucharist	The Sacrament which re-enacts Jesus' Last Supper where he shared bread and wine with his disciples.
4	Orthodox	The 'traditional', Eastern-based part of Christianity governed by a patriarch.
5	Catholic Church	A branch of Christianity based in Rome and led by Pope.
6	Anglican	Any church or church member which is part of Church of England.
7	Baptism	An initiation ceremony using water, through which people become members of the church.
8	Believer's Baptism	Initiation into the Church, by immersion in water, of people old enough to understand the ceremony/rite and willing to live a Christian Life.
9	Infant Baptism	The Sacrament through which babies and young children become members of the Church, where promises are taken on their behalf by adults; the infant is freed from sin and introduced to the saving love of God and the support of the Christian community.
10	Protestant	A branch of Christianity, that agree on the central belief that the Bible is the only authority fir Christians.
11	Palm Sunday	The Sunday before Easter, celebrates Jesus arrival into Jerusalem.
12	Maundy Thursday	The Thursday before Easter, observed by Christians to commemorate the Last Supper.
13	Good Friday	Remembers the crucifixion of Jesus and to commemorate this day Christians will typically fast.
14	Crucifixion	Roman method of execution by which criminals were fixed to a cross.
15	Easter Saturday	The Saturday before Easter, it is the last day of lent.
16	Easter Sunday	Easter is celebrated on this day and Christians celebrate the resurrection of Jesus.
17	Resurrection	Jesus rising from the dead on Easter Sunday and the central belief in Christianity.
18	Hymns	A religious song or poem praising God.
19	Denomination	A distinct group within the Christian faith, with its own organisations and traditions.
20	Indulgences	A paper brought from the clergy which had the effect of reducing the amount of punishment a person
		could expect from God for their sins. (Christianity)
21	Wealth	An abundance of valuable possessions or money.
22	Clergy	Those who have been trained and ordained as religious leaders.
23	Corrupt	Dishonest or fraudulent behaviour by those with power.

	Sacraments
1.How do Sacraments help Christians?	Many Christians believe that Sacraments help strengthen their relationship with God by making him apart of their lives.
2.Why do Christians get baptised?	Many Christians feel that baptism helps cleanse people from original sin and by getting baptised you are made a member of the church.
3.What are the two types of baptism?	Infant baptism and believer's baptism.
4.Which denomination(s) of Christianity practice infant baptism?	Catholics, Anglican, Orthodox and Methodist.
5.Which denomination(s) of Christianity practice believer's baptism?	Baptist and Pentecostalists.
6.Who do Christians thank when celebrating Holy Communion?	Christians give thanks to God for his great love in sending Jesus to save people from sin and enable them to experience God's love for all eternity.
7.What impact does Holy Communion have on Christians?	By participating in the Holy Communion this allows Christians to strengthen their commitment to their faith.
8.What does the bread and wine represent in Holy Communion?	It represents the body and blood of Christ.

Factor		
Easter		
1.Why is Easter the most	Easter is important because it celebrates the	
important Christian	resurrection of Jesus from the dead.	
festival?		
2. How do Christians	Christians attend church and churches try to	
celebrate Palm Sunday?	recreate Jesus' entry into Jerusalem. They	
	do this by handing out palm crosses to	
	remind the congregation that the people of	
	Jerusalem laid down palm branches as a	
	carpet for Jesus.	
3.What does Maundy	This service remembers Jesus' last night of	
Thursday remember?	day remember? freedom with his disciples, when Jesus was	
-	very sad about what was to come.	
4.What do Christians do	Christians attend a church service where	
on Good Friday?	hymns are sung of what happened to Jesus	
	and they also reflect on how his death	
	made God's forgiveness of human sin	
	possible.	
5.What is the Easter Vigil?	This service is held very late on Easter	
_	Saturday. It is about waiting for the day	
	Jesus rose from the dead.	
6.How is Easter	Christians attend church but also give	
celebrated in the UK?	chocolate eggs as gifts because it	
	represents life and the stone which covered	
	Jesus' tomb. Easter is also a holiday in the UK	
	so people take time off work and school.	

Protestantism		
1.What was The Papal	Between 1378 and 1417CE, there were several popes at the same time and this caused a split in the Roman Catholic Church	
Schism?		
2.Why did people not trust	Corrupt clergy were seen everywhere as people received pay but didn't do anything and some gave the jobs to their families	
the Church?	and this did not fit into the teachings of the church.	
3.Who were key figures	John Wycliffe (1330-84) attacked the privileged status and immense wealth of the clergy. Martin Luther (1483-1546) attacked	
that protested against the	corruption in the church including indulgences and wanted reform. Henry VIII (1491-1547) wanted to divorce and marry which	
Church?	was something that wasn't allowed in the Catholic Church so he broke away from the Catholic Church.	

Philosophy, Religion and Ethics Year 8 Human Rights and Social Justice 1.2

	Keywords			
24	Human Rights	The basic rights and freedom to which all human beings should be entitled to.		
25	Social Justice	Ensuring that society treats people fairly whether they are poor or wealthy and protects people's human rights.		
26	United Nations	International organisation founded in 1945 and has 193-member states and focuses on maintain international security and peace.		
27	7 Universal A historic document that outlines the rights and freedom that everyone is entitled to.			
	declaration of			
	human rights			
28	Dignity	This is the right of a person to be valued and respected for their own sake and to be treated ethically.		
29	Equality	Providing equal opportunities to everyone and protecting people from being discriminated against.		
30	Prejudice	Unfairly judging someone before the facts are known; holding biased options about an individual or group.		
31	Stereotypes	A set idea that people have about what someone/something is like, especially an idea that is wrong.		
32	Discrimination	Actions or behaviour that result from prejudice.		
33	Heterosexual	To be sexually attracted to members of the opposite sex.		
34	Homosexual	To be sexually attracted to member of the same sex.		
35	Positive	Treating people more favourably because they have been discriminated against in the past or have disabilities.		
	Discrimination			
36	Racism	Treating someone differently based on their ethnicity and race.		
37	Dr Martin	He was a leading figure during the Civil Rights Movement in America during 1950s-1960s.		
	Luther King Jr			
38	Rosa Parks	She was an American civil rights activist who was best known for her role in the Montgomery bus boycott.		
39	Segregation	The act of keeping one group away from the other and treating them differently.		
40 Civil Rights This was a non-violent campaign from 1954-1968 aiming to abolish legalised racial segregation and discrimin		This was a non-violent campaign from 1954-1968 aiming to abolish legalised racial segregation and discrimination against African-		
	Movement	Americans in the United States.		
41	Poverty	Being without money, food or other basic needs of life (being poor).		
42 Emergency Aid Also known as short term aid; help given to communities in a time of in a time of disaster or crisis e.g. food during a		Also known as short term aid; help given to communities in a time of in a time of disaster or crisis e.g. food during a famine, shelter after		
		an earthquake.		
43	Long-term Aid	Assistance given to a poor country over a long period of time that has a lasting effect.		

Page 1

Philosophy, Religion a	nd Ethics Year 8 Human Rights and Social Justice 1.2		Page 2
Hum	an Rights and Social Justice	Prejudice and Discrimination	
1.Why is it necessary to have Human Rights?	It is necessary because it protects everyone especially those in vulnerable positions. Also, having rights means that it is important to respect the rights of others.	 What is the difference between prejudice and discrimination? What are two key 	Prejudice means holding biased opinions that are based on stereotypes and discrimination is the behaviour or actions that result from prejudice. "love your neighbour as yourself" Romans 13:1 .
2. How do Christians promote social justice?	Christians follow the teachings of Jesus as in the parable of the Sheep and the Goats (Matthew 25:31-46). Also, Christians campaign to improve the lives of the less fortunate in society, for example, Christian Aid.	verses from the Bible that promote Equality. 3.Name one key verse from the Qur'an that promotes Equality.	"There is neither Jew nor Gentile, neither slave nor free, nor is there male and female, for you are all one in Christ Jesus" Galatians 3:28 "People, we created you all from a single man and a single woman, and made you into races and tribes so that you should get to know one another" Qur'an 49:13
3. How do Muslims promote social justice?	Muslims give Zakat (Charity). This Is a compulsory payment of 2.5% of their wealth to good causes every year. Also, Muslims become involved in social and community projects such as working with the homeless or the poor.	4. What is the Christian attitude towards homosexuality? 5. What is the Muslim attitude towards homosexuality	Christians have different view on homosexuality. Some Christians believe that it is against God's will (Catholics) whereas other Christians are accepting of homosexual relationships (Quakers). Muslims believe that the Qur'an and Hadith teach that homosexuality is against God's will and forbidden.

Charity		
1.What is the	Emergency aid is required after a terrible disaster e.g. flood or earthquake and typically temporary shelter, healthcare services, food	
differences between	and water are provided by charities however this doesn't solve the long-term effects that are suffered so long-term aid is offered to	
emergency aid and	help people affected get out of poverty.	
long-term aid?		
2. What are some	"Be good to your parents, to relatives, to orphans, to the needy, to neighbours near and far" Qur'an 4:36.	
religious teachings	"If any saves a life it is as he saves the lives of all mankind" Qur'an 5:32	
that encourage	"A new command I give you: love one another. As I have loved you, so you must love one another. By this everyone will know that	
giving to charity?	you are my disciples, if you love one another." John 13:34-35	
3. What are the	Islamic Relief: Provides both emergency aid and long-term aid. It aims to promote sustainable economic and social development	
names of two	so communities can support themselves.	
religious Charites?	Christian Aid: Was set up after World War Two to help refugees in Europe. It now works in disaster zones around the world.	

Math	s: Year 8	Unit 1: Ratio	Term: Autumn Half Term 1
1	Ratio	A statement of how two numbers compare	2:3
2	Equal Parts	When a whole is shared fairly, the parts must be exactly the same size	
3	Proportion	A statement that links two ratios	
4	Multiplier	The multiplier will make the original number bigger or smaller	
5	Units	Description of measurement	Converting Metric Lengths $x 100$ $x 10$ $x 100$ $x 1000$
6	Share	Shares by dividing a shape into a. We call the parts equal shares if each part is of the same size.	
7	Equivalent	Of equal value	
8	Scale	The comparison of something drawn to its actual size	(1 centimeter represents 250 meters) 1: 25 000 0 1000 2000 3000 4000 meters
9	Factors	Numbers we can multiply together to get another number	
10	Numerator	The numerator is the number of parts you are counting. (top of fraction)	numerator (number of parts we have)
11	Denominator	The number of equal parts that make one whole unit. (bottom of fraction)	5 denominator (total parts in whole)

	Maths: Year 8	Unit 2: Multiplicative C	hange Term: Autumn Half Term 1
1	Proportion	A statement that links two ratios	$\frac{a}{b} = \frac{c}{d}$
2	Variable	A letter representing an unknown that can change (able to vary)	
3	Axes	horizontal and vertical lines that a graph is plotted around	y-axis y-axis y-axis y-axis y-axis x-axis
4	Approximation	an estimate for a value	
5	Scale Factor	the multiple that increases/ decreases a value	$\begin{array}{c c} \underline{Scale \ factors} \\ 20 \longrightarrow \times 5 \longrightarrow 100 \\ 24 \longrightarrow \times \frac{1}{4} \longrightarrow 6 \\ 3.2 \longrightarrow \times 1 \longrightarrow 3.2 \\ \hline 11 \longrightarrow \times 8 \longrightarrow 88 \\ 88 \longrightarrow \times \frac{1}{8} \longrightarrow 11 \end{array}$
6	Currency	the system of money used in a particular country	
7	Conversion	the process of changing one unit or currency to another	$\begin{array}{c} - 10 & - 100 & - 1000 \\ \hline mm & cm & m & km \\ \hline \chi & 10 & \chi & 100 & \chi & 1000 \end{array}$
8	Scale	the comparison of something drawn to its actual size.	
9	Directly Proportional	As one variable changes the other changes at the same rate	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} y \\ y $

٨	Maths: Year 8	Unit 3: Fractions	Term: Autumn Half Term 1
1	Numerator	The numerator is the number of parts you are counting. (top of fraction)	numerator (number of parts we have)
2	Denominator	the number of equal parts that make one whole unit. (bottom of fraction)	5 denominator (total parts in whole)
3	Whole	a positive number including zero without any decimal or fractional parts.	
4	Commutative	When swapping the numbers around leads to the same answer (only in addition and multiplication)	5 + 3 = 3 + 5 $8 = 8$
5	Unit Fraction	a fraction where the numerator is one and denominator a positive integer	
6	Non-unit fraction	a fraction where the numerator is larger than one	
7	Dividend	the amount you want to divide up	
8	Divisor	the number that divides another number	dividend divisor quotient
9	Quotient	the answer we get after we divide one number by another. e.g. dividend÷ divisor = quotient	$20 \frac{1}{2} 4 = 5$
10	Reciprocal	a pair of numbers that multiply together to give a value equal to 1	Reciprocal of Fraction: $\frac{2}{3} \times \frac{3}{2}$
11	Simplifying fractions	Divide the numerator and denominator by the highest common factor.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
12	Equivalent fractions	Fractions which represent the same value	$\frac{2}{3} = \frac{4}{2} = \frac{5}{4} = \frac{8}{2}$
13	Multiplying fractions	Multiply the numerator Multiply the denominator	$\frac{3}{4}X\frac{2}{3} = \frac{6}{12}$

14	Dividing fractions	Multiply the first fraction by the reciprocal of the second fraction	$ \frac{2}{5} \div \frac{3}{4} $ Multiplying by a reciprocal gives the same outcome
15	Multiplying integer by fraction	Convert the whole number to a fraction by writing 1 as the denominator. Multiply as normal.	$\frac{\frac{1}{8} \times 5}{\frac{1}{8} \times \frac{5}{1}}$ $\frac{\frac{1 \times 5}{8 \times 1} \Rightarrow \frac{5}{8}}{8 \times 1}$

	Maths: Year 8	Unit 4: Cartesian Plane	Term: Autumn Half Term 2
1	Quadrant	4 quarters of the coordinate plane	y-axis 4 Quadrant II 2 1 4 4 3 Quadrant I 2 1 4 4 3 Quadrant I 2 1 4 4 3 Quadrant I 2 1 4 4 3 Quadrant I 2 1 4 4 4 4 4 4 4 4 4 4 4 4 4
2	Coordinates	A set of values that show an exact position on a graph	Coordinates (X, Y)
3	Horizontal	A straight line from left to right (parallel to the x axis)	VERTICAL
4	Vertical	A straight line from top to bottom (parallel to the y axis)	HORIZONTAL
5	Origin	(0,0) on a graph. The point that the 2 axes cross	$\begin{array}{c} & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\$
6	Parallel	Lines that never meet	Parallel Lines
7	Gradient	The steepness of a line	Gradient of a Straight Line
8	Intercept	Point on y-axis where the linear function intersects	-2 10° 1° 2° 3° y -intercept
9	Table of values	A table that lists the values of y for given values of x, for a given line	This represents a coordinate pair $(-3, -10)$

Maths: Ye	ear 8	Unit 5: Representing Data	Term: Autumn Half Term 2
1	Variable	A letter representing an unknown that can change (able to vary)	
2	Relationship	The link between two variables (items). E.g. Between sunny days and ice cream sales	
3	Correlation	The mathematical definition for the type of relationship	
4	Positive correlation	As one variable increases so does the other variable	Positive Correlation Negative Correlation
5	Negative Correlation	As one variable increases the other variable decreases	
7	NO correlation	There is no relationship between the two variables	No Correlation
8	Origin	(0,0) on a graph. The point that the 2 axes cross	Origin (0,0) (0,0)
9	Line of best fit	A straight line on a scatter graph used to make estimates about the information	
10	Outlier	A point that lies outside the trend of graph.	Variable 2 4 2 0 1 2 3 4 5 6 7 Variable 1
11	Quantitative	Descriptive information, colours, genders, names, emotions etc	
12	Continuous	Quantitative data that has an infinite number of possible values within its range	
13	Discrete	Quantitative or qualitative data that only takes certain values	
14	Frequency	The number of times a particular data value occurs	

15	Grouped Data	Data is grouped in class intervals as means of summarizing and analysing	x Weight(g)Frequency $40 < x \le 50$ 1 $50 < x \le 60$ 3 $60 < x \le 70$ 5
16	Ungrouped Data	When data is not placed in any categories, also called raw data	Number of siblingsFrequency0213243241
17	Two-way tables	Data table that shows frequency of two variables, the rows indicating one variable and columns for the other variable	SquaresCirclesTotalGreen λ 3 5 Red λ 1 3 Total448

SCIENCE: CHEMISTRY YEAR 8 TOPIC: HOW SCIENCE WORKS 2

	Features of Investigations			Mean	An average of a set of data found by adding together all the values in
1	What are the three types of variable?	Dependent, independent, controlled			a data set and dividing by the number of values in the set.
2	What is the dependent variable?	The variable that scientists measure during an experiment	19	True value	The result that would be obtained in an ideal measurement or
3	What is the independent variable?	The variable that scientists change during an experiment			experiment, totally unaffected by errors.
4	What are controlled variables?	The variables kept the same during an experiment.	20	Accurate	Results are accurate if they are
5	What is a fair test?	An experiment where all the variables are controlled other than the independent			close to the true value.
	What is an unfair test?	variable. An experiment where lots of variables	21	Precise	Results are precise if they have been repeated and are similar.
6		change.	22	Data analysis	When data is looked at to find
7	Why are fair tests important?	So you know why your dependent variable is changing			patterns and relationships that can help to reach a conclusion.
8	What is a hypothesis?	A statement of how one variable affects another variable that can be tested using	23	Repeatable data	Getting results that are similar when the experiment is done again
	What is a prediction?	experiments A statement that describes what you think	24	Reproducible data	Getting results that are similar when someone else does the experiment.
9		will happen in an experiment with a scientific explanation	25	Valid data	A measurement is valid if it measures what it is supposed to
	Planning an experiment				measure: it must be reproducible and repeatable.
10	Hazard	Something that can cause harm.	26	Inaccurate	Not close to the true value of what is being measured.
11	Hazard symbol	A label giving important information about dangers associated with a	07	Random error	Something that causes an
		chemical or material.	27		unexpected difference between a
12	Risk	The chance that harm will be caused			measurement and the true value e.g. not using equipment properly
13	Precaution	Actions to take to reduce risk before doing something.		Systemic error	Something that causes results to
14	Apparatus	Pieces of equipment	28		differ by the same amount each time.
15	Equipment list	Taking another measurement or observation of the same experiment.			
17	Method	A description of how an experiment	29	Conclusion	A summary of what has been discovered in an experiment
16		should be done, often written as a list of instructions.	30	Peer Review	A process where scientists method and results are reviewed and
17	Repeat experiments	Experiments carried out in the same way, following the same method, to get more results.			checked by other scientists to ensure the data is correct and conclusions are valid

1	What is data?	Data is raw figures/numbers we collect when investigating a hypothesis.
2	How do we collect data?	On results tables.
3	How do we process data?	Use the data (numbers) from the table and draw graphs to find patterns.
4	What is continuous data?	Numbers that can have any value within a range. Examples include time, height and temperature.
5	What is discontinuous data?	Numbers that come in groups rather than a range. E.g. eye colour, blood group.
6	How do you draw a results table?	Independent Dependent variable (Units) (Units)
7	How do you calculate the mean?	Add all the values up and divide by how many values there are.
8	What is an anomalous result?	A result/number that doesn't fit the pattern, the odd one out.
9	Should anomalous results be included when calculating the mean?	No.

10	What is a bar graph?	Used for plotting discontinuous data.
		Dependent
11	What is a line graph?	Used for plotting continuous data.
	What should a graph include?	Dependent Contraduction of the provident of the providen
12	What should a graph include?	 Independent variable- x axis, dependent variable- y axis Appropriate scale- even intervals, even spacing between numbers Labelled axis Usually a line of best fit

13	How do you draw a line of best fit?	Do not connect the dots. It is usually drawn freehand covering most points unless the points are plotted on a straight line, then a ruler is used.
		4 Straight line
		to or best fit
		T A A A A A A A A A A A A A A A A A A A
		* Curvec H / (X)
		of best (Freehc)
		t (Fucher
		(Freenc
14	What does DESCUS stand for?	Data-Numbers
14		Equation-Select the right equation
		Substitute- Put numbers into the equation. Calculate
		Units- eg. Seconds or metres
15	What is a quantity and its unit?	Significant figures A physical quantity is something that can be measured. For any measurement, the unit being used must be
15		stated to give an understanding of the scale of the measurement.
		E.g. Quantity: Time, Unit: seconds Quantity: Distance, Unit: metres
16	How do you convert from micrometres (µm) to millimetres (mm)?	μm to mm Divide by 1000
17	How do you convert from millimetres (mm) to micrometres (µm).	mm to µm Times by 1000
18	How do you convert from metres (m) to	m to mm Times by 1000
10	millimetres (mm)? How do you convert from metres (m) to	m to km Divide by 1000
19	kilometres (km)	
20	How do you convert from kilometres (km) to metres (m).	km to m Times by 1000
21	What is a percentage?	Percentages represent an amount out of 100.
22	What is a ratio?	E.g. If you got 6/20 in a test. To make it into a percentage you would: (6÷20)x100= 30% A ratio shows how much of one thing there is compared to another. Ratios are usually written in the form a:b.
ZZ		e.g. If I have a bowl of fruit with three apples and one orange the ratio is 3:1.

SCIENCE: CHEMISTRY YEAR 8

TOPIC: CHEMICAL REACTIONS

Chemical Changes		19	Name an example of a fuel?	Wood, petrol, methane	
1	What is a chemical change?	A process where new substances are made (reactants turn into products) e.g. a chemical reaction	20	What are the products formed when a carbon-based fuel undergoes combustion?	Carbon dioxide and water
2	What is a physical change?	A change of state or dissolving	21	Write a word equation for the combustion of methane	Methane + Oxygen → Carbon dioxide + Water
3	In terms of chemical bonds, what happens in a chemical reaction?	Some are broken and others are made	22	Why are combustion reactions useful?	They release thermal energy
4	Why is a change of state not a chemical change?	No new substances are made	23	What can we use combustion	Heating, transport, generating
5	How can you tell if a chemical reaction has taken place?	Change in temperature, a change in colour, a gas formed, solid formed		reactions for? Thermal decompos	electricity
6	How do scientists show what happens in a chemical reaction?	With an equation (word or symbol)	24	What does thermal decomposition	Breaking down a substance with heat
7	What are reactants?	Substances you start with in a reaction	25	mean? What happens in a thermal	Reactants are broken down with heat
8	What are products?	Substances you end with in a reaction	26	decomposition reaction? What is the formula for calcium	forming new products CaCO ₃
9	In an equation symbol do we use to show a chemical change is	\rightarrow		carbonate What is produced when magnesium	Magnesium oxide and carbon dioxide
10	taking place? What is the law of conservation	That atoms cannot be created or	27	carbonate undergoes thermal decomposition?	magnesion oxide and carbon aloxide
10	of mass? To obey the law of conservation	destroyed There are the same number of atoms	28		Bubble the gas through limewater. If it turns cloudy, carbon dioxide is present.
	of mass we have to balance symbol equations. What does this mean?	of each element in the reactants and products.	29	In a thermal decomposition why does it appear that mass has	A gas was produced and escaped into the room
12	$H_2 + O_2 \rightarrow H_2O$ Why is this reaction not balanced?	There are two oxygen atoms in the reactants but only 1 in the products		decreased? Displacement	reactions
13 14	Why are state symbols added to chemical equations. There are four state symbols (s) (I)	The show the state of matter of the reactants and products (s) solid (I) liquid (g) gas (aq) aqueous /	30	What is a displacement reaction?	A reaction where a more reactive element takes the place of a less reactive element in a compound
14	(g) (aq). What does each mean? Give an example of a type of	dissolved Oxidation, neutralisation, thermal		Reactions o	facids
15	chemical reaction Types of chemic	decomposition, combustion.	31	When an acid reacts with a metal what are the products?	Hydrogen gas and a salt
	Oxidation Re		32	When a acid reacts with a alkali what are the products?	Water and a salt
16 What forms when a metal reacts with A metal oxide			<u>Rates of rec</u>	ictions	
17	What is a combustion reaction?	A reaction where a fuel is heated (burned) and reacts with oxygen	33	What is the rate of a reaction?	How quickly reactants are turned into products
18	What is a fuel?	A substance which stores energy in the chemical store	34	What factors can change the rate of a reaction	Temperature, catalyst, concentration and surface area

SCIENCE: BIOLOGY Y8

TOPIC: Health and Lifestyle

<u>Health</u>			Digestive system		
1	What is a communicable disease?	A disease that can spread from one organism to another	22	What is the digestive system?	A group of organs working together to break down food
2	What is a non-communicable disease?	A disease that cannot spread from one organism to another.	23	In order, which organs are in the digestive system	Mouth, Oesophagus, Stomach, (Liver/pancreas), Small intestine, large intestine, rectum, anus
3	Give examples of communicable diseases	Malaria, COVID19, Influenza, Salmonella	24	What is digestion?	To break down food into small soluble molecules
4	Give examples of non- communicable diseases	Heart Disease, cancer.	25	What is the function of the small intestine?	To absorb soluble nutrients from the digestive system into the body (blood).
5	How can communicable diseases spread?	Direct contact, water, air, vector, unhygienic food.	26	What is the function of the large	To reabsorb water into the body
	<u>Healthy diet a</u>		27	What is an enzyme?	A biological catalyst that speeds up
6	What is energy measured in?	Joules (J) or Kilojoules (kJ)	28	Which enzymes break down	digestion. Carbohydrase, protease, lipase
7	Why do we consume carbohydrates?	To provide energy		carbohydrates, proteins and lipids?	
8	Why do we consume lipids?	To store energy	29	What do carbohydrates break down into?	Sugars (glucose)
9	Why do we consume proteins?	For growth and repair	30	What do proteins break down into?	Amino acids
10	Why do we consume vitamins and minerals?	To keep you healthy	31	What do lipids break down into?	Fatty acids and glycerol
11	Why do we consume fibre?	To help food move through the gut.		Drugs and	<u>Smoking</u>
12	Why do we consume water?	It is needed for all cells and bodily fluids like blood.	32	What are medicinal drugs?	Medicine
13	What is starch?	A type of carbohydrate found in plants, especially grains (pasta/rice)	33	What are recreational drugs?	Drugs taken for fun
14	What foods contain lipids?	and potatoes. Fats and oils	34	Which organ system is controls the body's reactions?	Nervous system
14 15	What foods contain protein?	Chicken, fish, eggs	35	What is addiction?	When the body becomes dependent on a drug to feel normal
16	What is the test and positive result for starch?	lodine solution goes from orange to blue/black colour.	36	What are withdrawal symptoms?	What the body feels when someone tries to stop taking a drug. E.g. headaches and nausea
17	What is the test and positive result for sugar?	Benedict's solution goes from blue to orange/red.	37	Give examples of illegal drugs	Herion, cocaine, cannabis, ecstasy
18	What is the test and positive result for lipids?	Ethanol goes from clear and colourless to cloudy.	38	Give examples of legal drugs	Medicines, alcohol, tobacco (cigarettes), caffeine
19	What is the test and positive result for protein?	Biuret solution goes from blue to purple.	39	What types of drugs are there?	Hallucinogenic, depressant, stimulant
20	How does obesity develop?	Eating foods with more energy than	40	Name the parts of the respiratory system	Mouth/nose>trachea>bronchus> bronchioles>alveoli
21	What does deficiency mean?	Not having enough of a nutrient that can cause health problems.	41	Why is smoking bad for you?	It increases risk of breathing problems, cancer, heart attack and stroke

SCIENCE: PHYSICS YEAR 8 TOPIC: WAVES

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Sound			16	State the function of the cochlea	Detects vibrations and transfers them into electrical signals
1	What causes sound?	Sound waves are produced by vibrations	17	State the function of the auditory nerve	Carries signals from the ear to the brain
2	State the typical speed of sound in air	330 m/s	18	State the function of the pinner	The outer ear; direct sound vibrations into the ear
3	What is the definition of amplitude?	The amplitude of a wave is the maximum displacement of a point on a wave away from its undisturbed position	19	What is ultrasound?	Sound waves that have a frequency higher than the upper limit of hearing for humans – higher than 20000Hz (20kHz)
4	How does a change in amplitude affect a sound?	It changes the volume of the sound – louder or quieter	20	What is the auditory range?	The range of frequencies that can be heard – for humans this is 20 – 20000Hz
5	What is the definition of frequency?	The frequency of a wave is the number of waves passing a point each second	21	What is a wave?	A wave transfers energy without transferring matter
6	What happens to a sound when the frequency is increased?	The pitch increases	22	Define a longitudinal wave	A wave where the vibration is parallel to the direction of energy transfer
7	What happens to a sound when	The pitch decreases	23	Give some examples of longitudinal waves	Sound, infrasound, ultrasound, p- waves
8	the frequency is decreased? What is frequency measured in?	Hertz (Hz)	24	What is the symbol for wavelength?	λ (lambda)
9	What is the definition of wavelength?	The wavelength of a wave is the distance from a point on one wave to the equivalent point on the adjacent wave	25	What is the symbol for frequency?	f
10	State the unit of wavelength	Meter (m)	26		
11	State the unit of loudness of sound	Decibels (dB)		What is the symbol for wave speed?	V
12	Name the 6 parts of the ear	Pinner, auditory canal, ear drum, bones, cochlea, auditory nerve	27	What is the unit and unit symbol for wave speed?	Metres per second (m/s)
13	State the function of the ear drum	Thin layer of membrane that picks up the vibrations of sound waves	28		
14	State the function of the ossicle bones (hammer, anvil and stirrup)	Amplify the vibrations		What is the formula that links wave speed, frequency and	Wave speed = frequency x wavelength
15	What is the cochlea?	Long coiled tube in the ear that is filled with liquid that picks up vibrations		wavelength?	$V = f \times \lambda$

SCIENCE: PHYSICS YEAR 8

TOPIC: WAVES

				What is light scattering?	When light reflects off an object in
Light			16		different directions
1	How does light travel?	As waves, in straight lines. It is a transverse wave			
			17	Name 5 parts of the eye	Retina, iris, pupil, optic nerve, lens
2	What is the speed of light in a vacuum?	300,000,000 m/s		State the function of the reting	Layer at the back of the eye with light
3	Name the diagram used to show how light travels	Ray diagram	18		detecting cells and where an image is formed
4	What are the key features of a ray diagram?	Straight lines with arrows to show the direction			
5	What is the law of reflection?	Angle of incidence = angle of reflection	19	State the function of the pupil	Hole in the middle of the iris that allows light to pass through and enter the eye
6	What is the incident ray?	The incoming ray	20	State the function of the lens	Refracts light to focus on the retina
7	What is the normal line?	Line a right angle (perpendicular) to			
		the surface, from which angles are measured	21	State the function of the optic nerve	Carries signals to the brain
8	What is a transparent material?	Material that allows light to pass through it	22	What is the visible spectrum?	Band of colours of the rainbow made when white light is separated
9	What is a translucent material?	Material that allows some light to pass through it	23	Define a transverse wave	A wave where the vibration is perpendicular (at right angles) to the
10	What is an opaque material?	Material that allows no light to pass through it			direction of energy transfer
11	What is refraction?	Change of direction of a wave when it passes from one medium into another	24	Give some examples of transverse waves	Surface water waves, light, s-waves, electromagnetic waves (gamma, X- Ray, ultraviolet, visible light, infrared microwaves, radio)
12	Why does light refract?	When a light ray enters a more or less dense medium it changes speed and			
		therefore direction	25	What happens in transmission?	Waves pass through a material
13	How does light change direction when it enters a denser medium?	Towards the normal	26	What is colour?	A property of visible light determined by its frequency
14	How does light change direction when it enters a less dense	Away from the normal			
	medium?		27	Why do we see a green object as green?	It reflects green light and absorbs all other wavelengths
15	What is absorption?	When energy is transferred from a wave to a material	28	How does a blue filter work?	It transmits blue light and absorbs all other wavelengths

SCIENCE: CHEMISTRY YEAR 8 TOPIC: THE PERIODIC TABLE

	INCE. CHEMISTRI TEAR O	TOTIC: THE FERR				
The structure of the periodic table			21	Why are alkali metals stored in oil?	To stop them reacting with oxygen	
1	What is the periodic table?	An organised table showing the different elements	22	When alkali metals react with oxygen what happens to their appearance?	They turn dark in colour.	
2	What two types of elements are there?	Metals and non-metals	23	How does the reactivity of alkali metals change down the group?	It increases	
3	Who first prepared the modern periodic table?	A scientist called Mendeleev		Group	o 7	
4	What is a group in the periodic table?	The vertical columns	24		Non-Metals	
5	What is a period in the periodic table?	The horizontal rows	25	in group 1? What name is given to the group 7 elements?	The halogens	
6	How are groups different to periods in the Periodic Table?	Groups are the columns whereas the periods are the rows	26	Give 2 physical properties of the	They have low melting and boiling	
7	Why did Mendeleev put some elements together in groups?	They had similar chemical and physical properties	27	halogens How does the melting/boiling	points, they form coloured vapors Increases	
8	Which sides of the period table shows metals and non-metals	Left shows metals, right shows non- metals		point of halogens change down the group?		
9	Are most of the elements metals or non-metals	Metals	28	What happens to the colour of the vapour produced by the	It gets darker (yellow > green > brown > purple)	
10	What is a property?	A characteristic of something		halogens as you go down the group?		
11	What is a chemical property	The way an substance reacts with other chemical substances	29	Give 2 chemical properties of the halogens?	They are very reactive and toxic	
12	What is a physical property	A property of a substance that can be observed or measured e.g. melting	30	When a halogen reacts with a group 1 element what is formed?	A salt (metal – non-metal compound)	
point, appearance, density <u>Group 1</u>			31	What would the name of the salt be formed by iodine and potassium	Potassium iodide	
15	What type of elements do we find in group 1?	Metals	32	How does the reactivity of halogens change down the	It decreases	
	What name is given to the group 1 elements?	Alkali metals	33	group? Which is the most reactive	Fluorine	
	Give 3 physical properties of alkali metals	They are shiny, not very dense, have low melting points and are soft	34	halogen? Halogens take part in	A reaction where a more reactive	
16	How does the melting and boiling point of alkali metals change down	It decreases	34	displacement reactions. What is a displacement reaction?	element takes the place of a less reactive element in a compound	
17	the group? What are physical properties of the	Low density, low melting point and	<u>Group 0</u>			
	alkali metals makes then different to a typical metal	softness	35	What type of elements do we find in group 0?		
18	When an alkali metal is added to water what are the products?	A metal hydroxide and hydrogen gas	36	What name is given to the group 0 elements?	The Nobel gases	
19	Why are alkali metals called alkali metals?	They are metals that react with water to form alkalis (metal hydroxides)	37	Give a physical properties of the Nobel gases?	The have low boiling points and are all gases at room temperature	
	When alkali metals react with oxygen what product is formed?	A metal oxide	38	Give a chemical properties of the Nobel gases?	They are very unreactive	