KNOWLEDGE ORGANISER

YEAR 9

CYCLE 3

Name: ...

Tutor group:



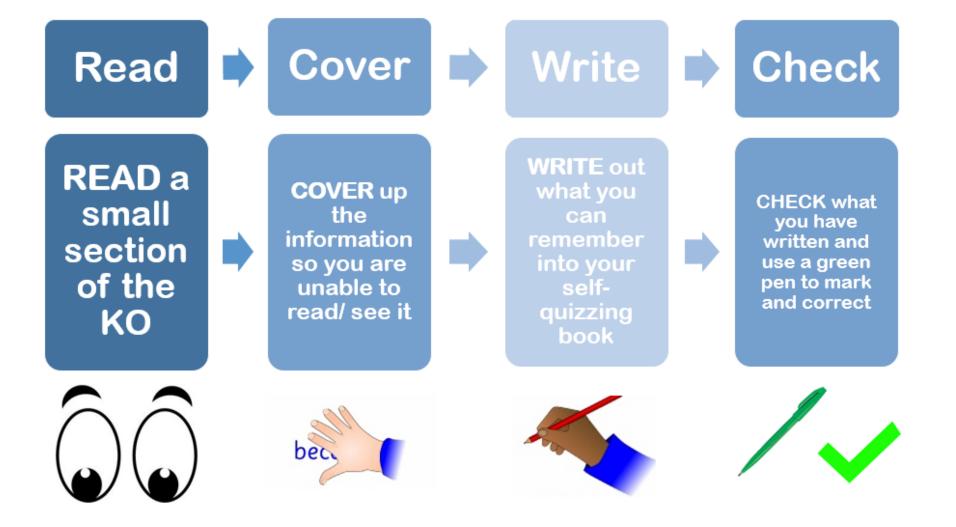


Knowledge Organisers contain critical knowledge you must know. This will help you recap, revisit and revise what you have learnt in lessons in order to remember this knowledge for the long-term.

You must have this book for every lesson – it is part of your equipment.

- Students remember 50% more when they test themselves after learning.
- You can use your book to help **memorisation**.
- **Read** a section of your Knowledge Organiser.
- Cover it up.
- Write out what you've remembered.
- **Check** the Knowledge Organiser to see if you're right.
- **Repeat** this process.
- Do this every day to help commit the information to your long-term memory.

How to Use the Book for Self-Quizzing



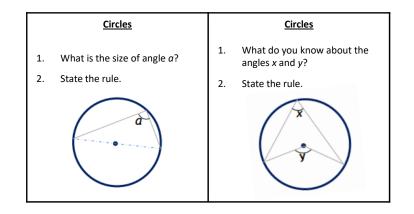
Using Your Knowledge Organiser for Revision

Research shows that students remember 50% more when they test themselves after learning something.

You can use your 100% book to create **<u>flashcards</u>**.

These should be:

- double-sided
- a question on one side, the answer on other
- a keyword on one side, a definition or image on the other
- used for self-testing.



Q1 What is <u>emulsion</u> ? Oil, water, droplet, shake, immiscible, bond, mixture.	Q2 What is <u>one similarity</u> between an <u>alkene</u> and an <u>unsaturated</u> fat?
Q3 What is the name for the <u>test</u> for <u>unsaturated fat</u> or <u>alkene</u> ? Describe what you would <u>see</u> .	Q4 Describe two ways that <u>saturated</u> fat and <u>unsaturated fat</u> (oil) are <u>different</u> .
Q5 What is <u>the</u> <u>advantage</u> of cooking food in <u>oil</u> ? <u>Explain</u> your answer.	Q6 <u>Describe</u> what an <u>emulsifier</u> molecule does.
Q7 Name the <u>two</u> <u>parts</u> of an <u>emulsifier</u> molecule.	Q8 What is the difference between a <u>monounsaturated</u> fat and <u>polyunsaturated</u> fat? <u>Mono</u> = one <u>Poly</u> = many

Feedback

Your teachers will give you feedback about your learning and progress in many different ways. These will include:

- Verbal feedback about something you are working on in the lesson (practical or written work).
- Verbal feedback through asking questions.
- Guided independent self-assessment.
- Guided peer assessment.
- Instant/quick written comments or identification of SPAG errors on your work as you complete it.
- Written feedback on your work and setting R4 or extension questions for you to complete.
- Knowledge quizzing/short tests that give you a score (i.e. 15/20).
- Longer tests that may also give a score (i.e. in %) as well as feedback about the content you need to re-learn/refresh.

You will be expected to respond to feedback in the following ways:

- ✓ Correcting all SPAG errors and copying out spellings as directed by your teacher.
- Answering R4 questions and completing extension questions/tasks in green pen.
- ✓ Giving peer feedback when it is expected by the teacher, using the format provided.
- ✓ Setting yourself targets when required, to ensure that you keep developing your knowledge and skills.
- ✓ Focusing on the areas of knowledge that you need to learn and quizzing yourself on these for homework.
- ✓ Showing that you take pride in your work by presenting it neatly.
- ✓ Always asking for help if you don't understand the work or what to do.

The Literacy Mat

Connectives

Adding Ideas

Furthermore, in addition, similarly, also, and, too.

Evaluating

Consequently, surprisingly, significantly, interestingly, unexpectedly.

Showing Difference But, however, on the other hand, although, whereas, alternatively, arguably.

Listing Firstly, secondly, last, then, next, finally.

Common Mistakes

Correct Capital Letters

To start EVERY sentence. For 'l' (as in 'l went'). For ALL names. Film/book names. NeVeR To be uSed RanDomLy!

Great Big Nevers!

Gonna – going to Ain't – am not We/they was – we were Gotta – have got to Innit – isn't it Gotten – got Coz/cause – because <u>Would HAVE' vs 'Would OF'</u> NEVER use 'of' after a modal verb:

'Would <u>have</u>' **NOT** 'would of' 'Could <u>have</u>' **NOT** 'could of' 'May <u>have</u>' **NOT** 'may of' 'Should <u>have</u>' **NOT** 'should of' 'Might <u>have</u>' **NOT** 'might of'

<u>Homophones</u>

To/too – I went to school. (towards). I ate too much (more than enough). I am happy too (also). Their/there/they're – They're (they

are) over there (that place) reading their (belonging to them) books. **Your/you're** – Your work is great (belonging to you). You're awesome (you are).

Correct Sentences

<u>Simple Sentence</u> – must contain a verb and a subject. ^{subject} <u>Matt was</u> very cold today. <u>I</u> always <u>eat</u> breakfast in the morning

<u>Compound Sentence</u> – two simple sentences joined by a connective. I tried to speak slowly <u>but</u> I was far too excited. Dan is very organised and he always

helps others.

<u>Complex Sentence</u> – contains a simple sentence and one or more 'subordinate clauses' (extra information!).

subordinate clause

When he handed in the homework, the teacher knew he had worked hard on it. comma She told a joke; which was hilarious, to her friends. subordinate clause

comma

Proof Reading

Follow this checklist when proof-reading or editing your work, especially assessments!

- 1. Check your presentation: Underline your date, title and any subtitles. Check that your work is laid out in paragraphs.
- 2. Skim read: Make sure capital letters and full stops are 100% accurate.
- 3. Skim read again: Check that your complex sentences have accurate commas.
- 4. Skim read again: Check the spelling of words you are not sure about (neighbour/dictionary/teacher/literacy mat).
- 5. Read a final time but carefully: Do **ALL** of your sentences make sense? Is there a better, clearer way of explaining/describing something?

Apostrophe Rules

1. Contractions

The apostrophe is put in the place of missing/omitted letters: I will becomes I'll / should not becomes shouldn't etc.

2. Possession

If something belongs to someone, we put an apostrophe, then an 'S': Toby's football / The dog's collar / The door's handle. But if the name already ends in an 'S', you just put an apostrophe: Chris' guitar / Jess' book / Mr Jones' classroom.

3. Plural Possession

If something belongs to a group, we just put an apostrophe at the end. The class' whiteboard / The boys' shoes.

4. It's vs Its

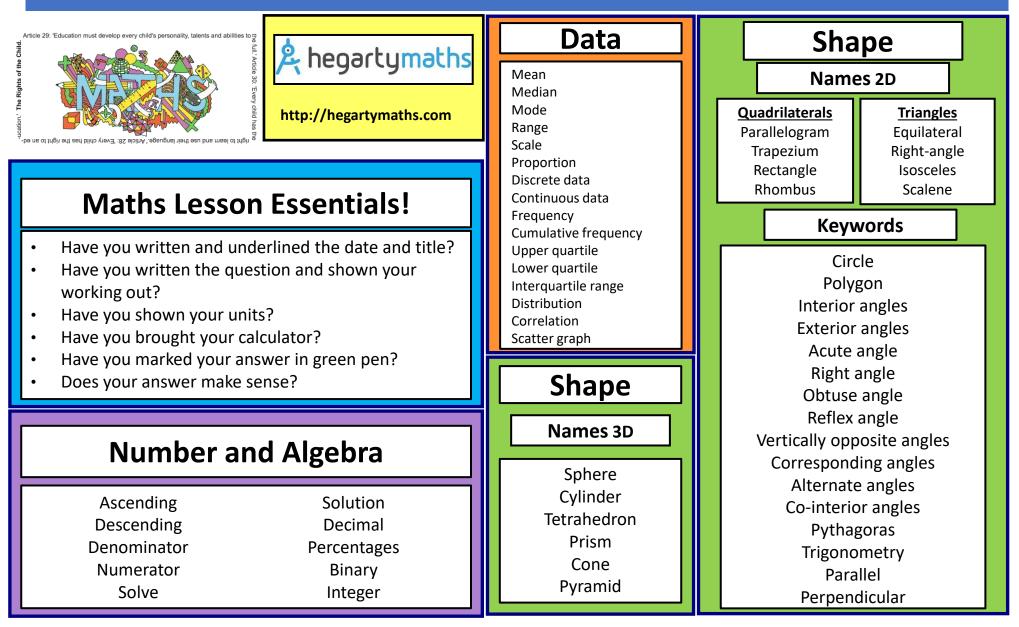
'It's' should ONLY have an apostrophe if it is being shortened from 'it is'. NEVER for possession: Its legs were long and hairy.

Never use an apostrophe for plurals! Carrot's / Ball's / CD's

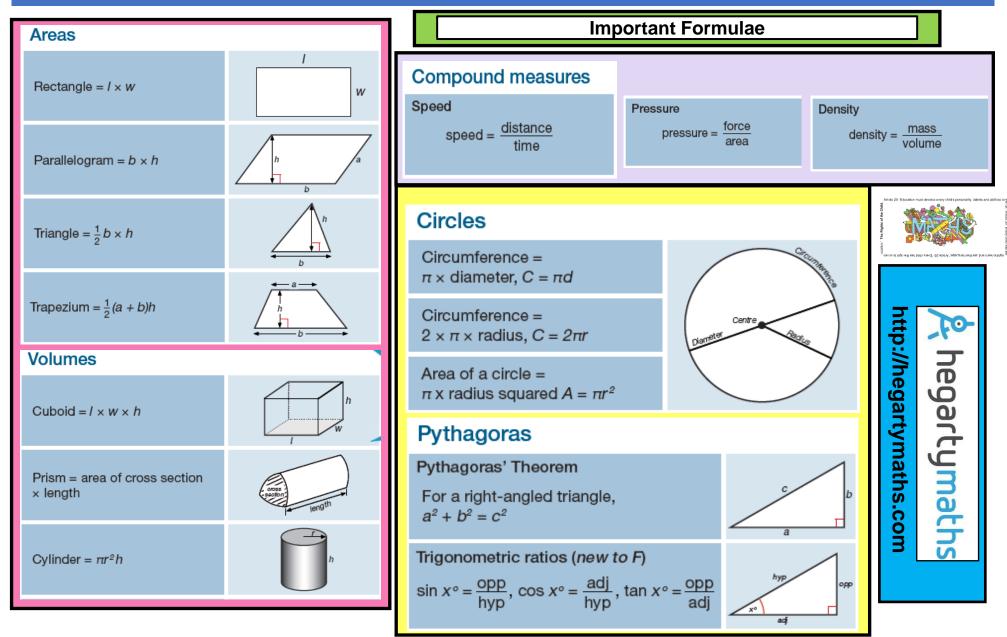
The Literacy Mat: Common Spellings

accommodation	daughter	improvise	performance	soldier
actually	decide/decision	industrial	permanent	stomach
alcohol	definite	interesting	persuade/persuasion	straight
although	design	interrupt	physical	strategy
analyse/analysis	development	issue	possession	strength
argument	diamond	jealous	potential	success
assessment	diary	knowledge	preparation	surely
atmosphere	disappear	listening	prioritise	surprise
audible	disappoint	lonely	process	survey
audience	embarrass	lovely	proportion	technique
autumn	energy	marriage	proposition	technology
beautiful	engagement	material	questionnaire	texture
beginning	enquire	meanwhile	queue	tomorrow
believe	environment	miscellaneous	reaction	unfortunately
beneath	evaluation	mischief	receive	Wednesday
buried	evidence	modern	reference	weight
business	explanation	moreover	relief	weird
caught	February	murmur	remember	women
chocolate	fierce	necessary	research	
climb	forty	nervous	resources	
column	fulfil	original	safety	
concentration	furthermore	outrageous	Saturday	
conclusion	guard	parallel	secondary	
conscience	happened	participation	separate	
conscious	health	pattern	sequence	
consequence	height	peaceful	shoulder	
continuous	imaginary	people	sincerely	
creation				

Maths Core Knowledge



Maths Core Knowledge



Science Core Knowledge

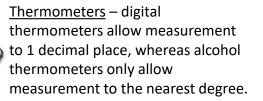
1. How Science Works Keywords

Keyword	Definition
Evidence	A set of data that proves a prediction or hypothesis.
Hazard	Something that could be dangerous.
Risk	Chance of something dangerous happening.
Prediction	Something you think will happen.
Hypothesis	Why you think something will happen.
Variables	Something that changes.
Independent variable	The variable that is changed or controlled in an experiment to test the effects on the dependent variable.
Dependent variable	The variable being tested and measured in an experiment.
Control variable	Something that is constant and unchanged during the experiment.
Repeatability	Closeness of repeats of results to each other.
Reproducibility	Agreement of results from different groups testing the same factor.
Accuracy	Closeness of a measured value to a standard or known value.
Precision	Closeness of two or more measurements to each other.
Reliability	The degree to which the result of a measurement can be depended on to be accurate.

2. Key Equipment



<u>Measuring cylinders</u> – 10 ml cylinders will allow measurement to the nearest 0.1 ml. 100 ml cylinders will allow measurement to the nearest 1 ml.





<u>Quadrats</u> – are used for sampling and to find the amount of a species in a certain area. Quadrats are placed onto the ground.



<u>Metre ruler</u> – used in multiple investigations in the lab. Allows us to measure to the nearest cm.



<u>Measuring tape</u> – used in sampling alongside the quadrat. Placed onto the ground to make a transect line to measure against.

Science Core Knowledge

3. Graphing,	Analysis and Evaluation Keywords	Distance	Number of bubbles (per			Mean		
Keyword	Definition	Example from lam to beaker		minute)			number of bubbles	
Hypothesis	An educational guess based on what you already know.	The rate of photosynthesis will increase as the lamp moves closer to the beaker.	(cm)					
		moves closer to the beaker.		Trial 1	Trial 2	Trial 3		
Independent Variable	The variable that can be changed by the scientist, it is the cause. Found on the <i>x</i> -axis.	Distance from lamp to beaker (cm)	10	15	14	15	14.6	
Dependent Variable	The variable that the scientist observes, it is the effect. Found on the <i>y</i> -axis.	Number of bubbles (per minute)	20	7	7	7	7	
Control	The variable that must always be kept the	Temperature, the size of the pond weed, amount of	30	7	7	6	6.7	
Variable	same.	water	40	1	2	1	1.3	
Line of Best Fit	A line that goes roughly through the middle of all the scatter points on a graph.	The red line on the graph above shows the line of best fit for the data plotted.	50	0	0	0	0	
Calculations	Use the correct equation to be used based on the variables of the experiment. Use correct units.	Calculation for mean of number of bubbles per minute: Trial 1 + Trial 2 + Trial 3 ÷ 3 15 + 14 + 15 ÷ 3 = 14.6	20	Investigating the Rate of Photosynthesis				
Results Analysis	Identify patterns in data. Describe what the table and graph show.	As the lamp is getting closer to the beaker, more bubbles are produced.	15 J	•	<			
Conclusion	Answer your original question. State whether or not the hypothesis was supported.	The results prove that the rate of photosynthesis is effected by the distance of the light source. As the lamp was moved closer to the baker, more bubbles were produced.	Number of Bubbles (Per minute) Dependent Variable		•			
Evaluation	Suggest an improvement for the equipment used. Suggest an improvement for the method used.	n improvement for the equipment Use an LED lamp. Measure the volume of oxygen produced.		0	20 ce from La	40 mp to Bea	60 aker (cm)	
<u>۾</u>					Independe	-		

Practical Skills Visited

Colour

Nuances of tone and colour within objects

Drawing

- Continued reinforcement of basics of shape and shading
- Complex shapes and compositions, detail
- Highlight and reflections
- Drawing for recording ideas in different ways

Painting

Use of acrylics

Use of different surfaces / mixed media work Painting on a larger / smaller scale – painting to suit scale

Printing

Collagraph

3D

Sculpture / installation

Photography

Using photographs and edits to support practical work

Literacy

Writing about Art and own ideas in details with a focus on evidencing ideas and thoughts through annotation in the sketchbook

Vocabulary

Art

- Installation artwork created by putting objects together in a particular way
- **Contemporary Art** art that is being created in society today
- Mixed media using different media together
- Annotation adding useful notes to your work to explain ideas
- Development showing progression within a project and showing links between artists you study and your own work
- Refinement improving your ideas by trying them out in order to create a successful final piece
- Collagraph a print that is created by building up a surface and then printing from this
- Acrylic a thick, water-based paint, often used as an alternative to oil paint

Stretch / Further Reading

- Complete at least one drawing a week from real life of ANYTHING using a different media – pencil, pen, thread, crayon, etc. This will greatly improve your drawing skills.
- 2 Find out about installation Art which artists first starting working in this way?
- 3 Take photographs that relate to your projects, this will make your work more personal and GCSE in style, preparing you for GCSE and also making your work stand out from the rest.
- Visit a gallery / museum: Pallant House in Chichester is a good start. London – The National Gallery, Tate Britain, Tate Modern, The British Museum and the V&A Museum are just a few that are free.

LINKS

Drawing

https://www.studentartguide.com/articles/ realistic-observational-drawings

Artists

This year your teacher will be being more creative and choosing artists specifically for you and your class. You need to ensure that you read about the artists fully to understand them and be able to say HOW they influence the work that you create. LINKS

How to analyse and use artists work https://www.bbc.com/bitesize/guides/zymtv9q/revision/1

Computing – Web Design / HTML

s	itart Tag	End Tag		HTML Example	Resulting Text	
	,		Defines <	bold text.	Defines bold text.	
<į>		<u i>	Defines <	italicized text.	Defines italicized text.	
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				ne < <u>ul</u> > tags indicate a bullet point list, and item is identified by the tags.	Item2Item3	
				Homework Checklist for the First Term		
1	More info			https://www.ictlounge.com/html/year 8/web	odesign main.htm	
2	2 Homework – Idea Badges			Animation, Graphic Design, Junior Web Designer, Making Websites, Video Editing Save images to your OneDrive for your website.		
3	Keywords			Use Quizlet to practice.		
4	Extension w	vork		You can build a basic website in Word and save webservice.	e as Html. Make a website on a free	

Dance

These facts will be needed for weekly homework

H	How does lighting support choreographic intent?		nt?		How does costume support choreographic intent?					
		-	1	Itzik Galili	A linh	na Curva	1	Footwear	Describe the style and	
1	Colour	Symbolic colours	2	Lucy Bennett	Artific	cial Things	-		significance of the footwear	
		such as red to show danger					2	Masks	Used to hide the face or enhance an emotion	
		U	3	Kenrick H20 Sandy		ncipation of essionism	3	Make up	To highlight the face and create a character	
2	Placement	From above to					4	Texture	The feel, appearance or	
		spotlight the main idea	4	Wayne McGregor	Infra		4	lexture	consistency of a surface or substance	
3	Direction	Side lights to	5	James Cousin	is Withi	in Her Eyes	5	Material	The matter from which a thing can be made	
		create mood	6	Christopher Bruce	Shado	ows	6	Define character	Costume will help to make your character come alive:	
4	Angles	Also to create mood and to		Which ke	eyword	belongs			consider walking in trainers compared to high heels	
		represent exits			where?		7	Sculpt the body	Dance clothing can be tight to the skin to allow movement	
5	Shadows	To add mood and mystery	1	skills	content, re	tent, dynamic lationship patial content.	8	Decoration	to be seen Clothing can be purposeful or used as decoration	
			2	•	Projection, focus, musicality, phrasing, communication of artistic intent.		9	Colour	Colour implies meaning to an	
6	Black out	To make the dancers appear					5		audience. Wearing a blue top can suggest coldness	
		and disappear	3	-		ignment, stamina, ktension, balance.	10	Compliments other features	Costume can match the lighting and the set design	

Drama

Abst	ract Techniques – often useful in Devised Drama		Scripted Drama
1	Conscience alley: Actors stand in two lines to make an 'alleyway' and they speak the inner	1	Playwright: The writer who wrote the play. Consider their intentions for their audience.
	thoughts/conflict of a character who walks in between.	2	Character lines: The words intended to be spoken by the actors playing the roles in the play.
2	Physical puppetry: One actor does controlling movements like a puppet master controlling another actor's movements as if with strings to show power and control.	3	Stage directions: The information within the script written in <i>italics</i> to give the actors and directors specific instructions about the characters, set and/or the action on stage and how to play/show it.
3	Marking the moment: A significant moment in the drama is highlighted and emphasised for the	4	Cues: The lines or moments that you use as a signal to yourself (as a performer) to enter the scene or begin your speech or line.
	audience, either through freeze frame or slow motion or both.	5	Dramatic irony: When the audience knows something that the characters themselves (onstage) do not know
4	Split scene and cross-cutting: Two or more scenes performed on stage at the same time, often with		e.g. in Blood Brothers when the characters Mickey and Eddie first meet, the audience knows they are brothers but the characters have no idea.
	one scene frozen or muted while the other takes the main focus and then this switches.	6	Subtext: The underlying meaning (not always explicitly said/stated)

 Image: Second system
 <td

<u>Re-cap the theatre practitioners</u> – Can you remember who is who?

said/stated).

Antonin Artaud: The Theatre of Cruelty Steven Berkoff: Physical Theatre and Exaggerated Characters/Comedy Bertolt Brecht: Political Theatre/Epic Theatre Konstantin Stanislavski: Naturalism

English

Year 9 Writing

tion Writing minology				2. Non-Ficti	on Writing			
minology					on thinking			
mmology				2a. Key Terminology				
Written from the pe	erspective of 'I'.			bias	An inclination or	prejudice fo	r or against one person or	group
An all seeing, all w	vise narrator			humour	The quality of be	amusing	g or comic.	
The use of symbol	ls to represent ideas (or qualities		tone			e writer employs to conve	y specific feelings,
Repeated image o	ridea.			empathy	The ability to une	derstand an	d share the feelings of ano	ther.
A warning or indica	ation of a future even	t.		anecdote	A short amusing	or interestir	ng story about a real incide	ent or person.
A story that can be moral one.	e interpreted to reveal	l a hidden meaning, us	sually a political or	irony	A state of affairs	or an event	that seems deliberately or	ontrary to what one
A figure of speech conjunction	in which apparently (contradictory terms ap	pear in	sarcasm	The use of irony	to mock or	convey contempt.	
The attribution of a human.	a personal nature or h	uman characteristics	to something non-	perspective	An attitude towa	rds or way o	f regarding something; a p	oint of view.
	that are the opposite	of each other.		imperatives	Phrases used to	give orders	, commands, warning or in	structions.
Comparison betwee	en two unlike things		nout a series of	syntactic parallels				
When the weather		of the character and/o	r mood of the	asyndetic list	Where there are	Where there are no conjunctions between each item.		
The occurrence of		und at the beginning o	of adjacent or	syndetic list	Where there is a	Where there is always a conjunction between each item.		
		dele of the action with	out exposition.	anaphora	The repetition of	a word or p	hrase at the beginning of s	successive clauses.
		<u> </u>						,,
	_		Resolution					
								Clear/apt/original title
 puts the character into a complicated situation and forces them into an irreversible situation. 	reaches a crucial moment. The tension builds reaching a peak.	the consequences of the climax. The tension starts to ease.	central problem is finally resolved leaving the reader with a sense of completion.	Strapline/subheading Subheadings Introductory paragraph	or name Addresses Date Paragraphs Yours sincerely/faithfully	introductio and conclusion	n audience Rhetorical indicators that an audience is being addressed throughout A clear sign off,	Organisational devices such as inventive subheadings or boxes Bullet points
ucture a piece o	f Descriptive wri	ting.		2c. Ideas to structure	a piece of Non-F	iction wr	iting.	
Drop: How can we drop the reader into the action.Shift: Will we shift in time, mood or place? Decide where you want to take your piece of writing.Zoom in: What tiny detail shall we zoom in on and write a lot about?Zoom out: Returning to the main scene what shall we focus on?Leave: Write a one-line paragraph that finishes off your piece.				Plan1 Introduction outlining your point of view/argument Introduction Point 1 (your 1 st reason for or against) Point 2 (your 2 nd reason for or against) Point 1 Point 3 (your 3 rd reason for or against) Point 2 Point 2 Conclusion: briefly concluding your argument with a strong statement. Conclusion: briefly con		Plan Introduction outlining y view/argument Point 1 (how the issue Point 2 (how the issue Point 3 (how the issue Conclusion: briefly co argument with a strong	our point of affects you locally) affects the country) affects the world) oncluding your	
	An all seeing, all w The use of symbol Repeated image of A warning or indic A story that can be moral one. A figure of speech conjunction The attribution of a human. Character or ideas Comparison betwe sentences in a par When the weather piece. The occurrence of closely connected When a piece of w A group of words the y Structure for N Rising Action The author puts the n character into a complicated situation and forces them into an irreversible situation. ucture a piece o Drop: How Shift: Will w you want to Zoom in: W Iot about? Zoom out: I	Repeated image or idea. A warning or indication of a future even A story that can be interpreted to reveal moral one. A figure of speech in which apparently or conjunction The attribution of a personal nature or h human. Character or ideas that are the opposite Comparison between two unlike things sentences in a paragraph. When the weather reflects the feelings or piece. The occurrence of the same letter or so closely connected words. When a piece of writing starts in the mid A group of words that share a similar th y Structure for Narrative Writing Rising Action Climax The author The story puts the reaches a crucial moment. The story puts the moment. The story reaching a peak. reaching a peak. forces them into an into an irreversible situation. reaching a peak. Drop: How can we drop the Shift: Will we shift in time, m you want to take your piece Zoom in: What tiny detail shilt about?	An all seeing, all wise narrator The use of symbols to represent ideas or qualities Repeated image or idea. A warning or indication of a future event. A story that can be interpreted to reveal a hidden meaning, us moral one. A figure of speech in which apparently contradictory terms ap conjunction The attribution of a personal nature or human characteristics human. Character or ideas that are the opposite of each other. Comparison between two unlike things that continues through sentences in a paragraph. When the weather reflects the feelings of the character and/o piece. The occurrence of the same letter or sound at the beginning of closely connected words. When a piece of writing starts in the middle of the action withe A group of words that share a similar theme or concept. y Structure for Narrative Writing. The author The story reaches a crucial moment. The story explores the consequences of the climax. The tension builds reaching a peak. In a complicated strain and reaching a peak. Denouement The suttor The story explores the consequences of the climax. The tension starts to ease. In the uthor intro an irreversible situation. The story explores the consequences of the climax. The tension starts to ease. In the structure apiece of Descriptive writing. Drop: How can we drop the reader into the a Shift: Will we shift in time, mood or pl	An all seeing, all wise narrator The use of symbols to represent ideas or qualities Repeated image or idea. A warning or indication of a future event. A story that can be interpreted to reveal a hidden meaning, usually a political or moral one. A figure of speech in which apparently contradictory terms appear in conjunction The attribution of a personal nature or human characteristics to something non-human. Character or ideas that are the opposite of each other. Comparison between two unlike things that continues throughout a series of sentences in a paragraph. When the weather reflects the feelings of the character and/or mood of the piece. The occurrence of the same letter or sound at the beginning of adjacent or closely connected words. When a piece of writing starts in the middle of the action without exposition. A group of words that share a similar theme or concept. Y Structure for Narrative Writing. The story explores is finally resolved leaving the consequences of the climax. The acomplicated to reaching a peak. n diversible situation and forces them into an inverversible situation. ucture a piece of Descriptive writing. Drop: How can we drop the reader into the action. Shift: Will we shift in time, mood or place? Decide where you want to take your piece of writing. Zoom in: What tiny detail shall we zoom in on and write a lot about?<	An all seeing, all wise narrator humour The use of symbols to represent ideas or qualities tone Repeated image or idea. empathy an ecode A story that can be interpreted to reveal a hidden meaning, usually a political or moral one. inony A figure of speech in which apparently contradictory terms appear in conjunction sarcasm The attribution of a personal nature or human characteristics to something non- human. perspective Character or ideas that are the opposite of each other. imperstives Comparison between two unlike things that continues throughout a series of sentences in a paragraph. syntactic parallels When the weather reflects the feelings of the character and/or mood of the piece. asyndetic list The occurrence of the same letter or sound at the beginning of adjacent or closely connected words. anaphora A group of words that share a similar theme or concept. hypophora Y Structure for Narrative Writing. Zb. Forms of Non-Fict Rising Action Climax Denouement tension starts to ease. The story's completion. Clear/apt/original title Stubleadings Introductory paragraph uture a piece of Descriptive writing. Zc. Ideas to structure prop: How can we drop the reader into the action. Shift: Will we shift in time, mood or place? Decide where you want to take	An all seeing, all wise narrator humour The quality of be The use of symbols to represent ideas or qualities tone The choice of we A warning or indication of a future event. aneodote A short amusing A story that can be interpreted to reveal a hidden meaning, usually a political or moral one. a story that can be interpreted to reveal a hidden meaning, usually a political or moral one. a story that can be interpreted to reveal a hidden meaning, usually a political or moral one. 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Forms of Non-Fiction Writing An effecting subsecting states in the order writhe is sensed or orapaling is finally the orderes orapphora	An all seeing, all wise narrator humour The quality of being amusing or comic. The use of symbols to represent ideas or qualities tone The choice of writing style the writer employs to convert emotions or attitudes. Repeated image or idea. empathy The ability to understand and ahare the feelings of and the asem of eliberately of expects and is often amusing as a result. A story that can be interpreted to reveal a hidden meaning, usually a political or morel one. A short amusing of interesting story about areal indice meaning as a result. A figure of speech in which apparently contradictory terms appear in continuition. sarcasm The use of irony to mock or convey contempt. 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English

Year 9 English Reading Anal	3. Writing about the effect.	4. Literary techniques	
1. What, How and Why prompts	2.Useful vocabulary to analytical writing:	3a. How the reader feels:	4a. Language Techniques:
 What is the writer doing? The writer is In the novelthe writer usesto The writer creates an atmosphere ofby using In Chapter 3 of, Of Mice and Men the writer uses sound imagery to create a contrast between the men outside the barn and the quiet, content atmosphere within the barn. How are they doing this? How do they use the language/language techniques/structure to do this? How do key words/phrases show this? For example [add quotation] the use of The adjective/alliteration/simile/metaphor The suggests/implies/demonstrates/presents/highlights/ The writer usescoupled with to highlight For example, 'From outside came the clang of horseshoes on the playing peg and the shouts of men,' the use of onomatopoeia creates a sense of excitement and movement. This is contrasted in the next line 'But in the barn it was quiet and humming and lazy and warm.' The repetition of and builds up the atmosphere of lazy content in the barn. Why are they doing this? Why did they choose that language? Why might they want us to interpret it in different ways? This may suggestAlternatively it may suggest The writer wants to create a feeling ofAdditionally it may suggest 	To describe a writer's intentions: portrays depicts represents demonstrates To give an example or quotation: for example for instance specifically, when in particular To add information: furthermore in addition also additionally To compare and contrast: whereas in comparison similarly in conclusion in closing given these facts	Suspicion Outrage Disgust Curious Calm Joyous Anxiety Irritation Compassion Respect Horror Concern 3b. Evaluative Vocabulary Subtle Pivotal Significant Compelling Powerful Dramatic Challenging Dramatic Insignificant Questionable Crucial Emphatic	Superlative: an adjective showing the highest quality or degree Hyperbole: A deliberate over exaggeration Imagery: vivid description of a particular scene Auditory imagery: vivid description of sounds Tactile imagery: vivid description of tactile environment Kinaesthetic imagery: vivid description of movement. Alliteration: words close to or next to each other that start with the same sound Onomatopoeia: Words used to imitate sound Personification: Non-human things that are given human characteristics Simile: A comparison using like or as Sibilance: repetition of the 's' sound 4b. Structural techniques: Contrast: the deliberate positioning of two or more objects/events/characters who have distinctly different characteristics Listing: a number of connected items written one after the other to emphasise a particular quality Shifts in focus: the change of focus in or between paragraphs Zooming in and zooming out: the narrowing and the widening of narrative focus Cyclical structure: the end of the extract/novel returns to the same topic as the opening Chronological structure: arranged in order of time Shifts in tense: moves from past to present tense or vice versa Dialogue: the speech of a character indicted by speech marks

English

1. Punctuation N				2. Apostrophes R	ules		
Full Stop Used at the end of a sentence	Question Mark Used at the end of an interrogative sentence to form a question.	Exclamation Mark Used at the end of an interrogative sentence to form a question.	Comma Use to separate clauses in a sentence.	To show contraction: Used to show when letter Do not = don't Could not = could They are = they'r	The Contract of Co	•	
Speech Mark dd 99 Used to show when a character speaks.	Colon Used to separate two independent clauses when the second explains or illustrates the first	Semi Colon Used separate two independent clauses that are about the same topic	Apostrophe used in three ways to show contraction, plural or possession.	 The cat's tail was Cat is a singular noun so y tail belongs to the cat Charles's cat was Charles is a singular noun 	rou need to add an apostro s naughty so, even though it ends in a	bhe and 's' to show that the an 's' already, you need to	
Hyphen can take the place of commas, parentheses, or colons—in each case to slightly different effect	Slash used to separate numbers, letters or words.	Ellipsis Use in non-fiction to show omission. In fiction show hesitancy or long pause.	Parenthesis Used to add extra information in a sentence	 add an apostrophe and another 's' to show that the cat belongs to Charles. The brothers' feet were muddy. Bothers is a plural noun that ends in an 's' so you don't add another 's' after yo aposptrophe. You just add the apostrophe to show the feet belongs to the 			
3. Sentence Type	es			4. Word Types			
Simple	20142 - 201000 - 201000 - 00000		use contains a subject and verb	Noun: A name, place or thing	Verb: A being, doing or having word	Adjective: A word that describes the noun	
Compound	Is two (or more) independen these clauses could form a s I like coffee and Mary went to wo Our car broke do	Mary likes tea. rk but John went to the party wn; we came last.	y.	Abstract Noun: An idea or concept e.g. bravery, courage, love	Modal Verb: A word that shows necessity or possibility	Pronoun: A noun that can be substituted for a name.	
Complex	with a subordination conjunc but does not express a com • We missed our p • Our dog barks w	tion or a relative pronoun and plete thought. lane because we were late. hen she hears a noise.	se. A dependent clause starts contains a subject and a verb	Concrete Noun: A noun that can be identified through one of the five senses (taste, touch, sight, hearing, or smell)	Adverb: A word that describes a verb	Preposition: The position or location of a word.	
Minor	Consist of a fragment, or inc Hello. The more, the more	omplete clause that still conve errier.	eys meaning.	Key S	stage 3 Gra	mmar	

Food Preparation and Nutrition

Keywords

- 1. Halal
- 2. Vegetarian
- 3. Ovo-lacto vegetarian
- 4. Vegan
- 5. Lacto vegetarian
- 6. Ethical
- 7. Diabetes
- 8. Coeliac
- 9. Gluten
- 10. Malnutrition
- 11. Lactose intolerance
- 12. Allergy
- 13. Anaphylaxis

Key Points

- 1. If you can't tolerate certain foods you have to change your diet.
- 2. Some religions have their own dietary laws and rules.
- 3. Diabetes is a condition caused because the pancreas doesn't produce any or enough insulin.
- 4. Coeliac disease is a condition where people have an adverse reaction to gluten.
- 5. Lactose intolerance is caused when the body is unable to digest lactose (a sugar found in milk and diary products).
- 6. An allergy to nuts can cause anaphylaxis.
- 7. The reasons why people become vegetarian include religion, dietary laws, ethical reasons, health or family.







The use of colour helps you to easily see whether they are high in saturated fat, sugar and salt. Red = high, Amber = medium, Green = low



Exam Questions

- 1. What religions traditionally do not eat pork?
- 2. Which foods can people with coeliac disease not include in their diets?
- 3. Why is it important to use codes when tasting foods?
- 4. What is triangular testing?
- 5. What information must be included on food labels by law?
- 6. What does PAL mean?
- 7. Explain the different factors that affect people's food choices.

Stretch

Know which information is legally required for a food label.

Explain how this information will help the consumer.

Further Links

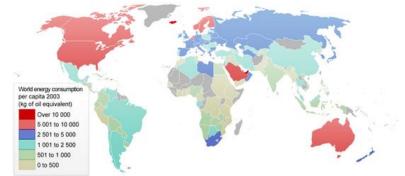
https://www.nhs.uk/conditions/coeli ac-disease/

https://www.bbc.co.uk/bitesize/guid es/z7fw7p3/revision/1

LEARN VOCAB	LEARN VOCAB French BUILD SENTEN							
High Level Sen	tence Starters	Verb-phrase (past tense)	Adjectives				
Pour qu'on puisse améliorer le monde. on peut Bien que la situation	To make the , world a better place, you can	Autrefois on (n')avait (pas) le droit de Au vingtième siècle, les élèves devaient	In the past, you were (not) allowed In the 20 th Century, school children had to	Avoir accès à une éducation Trouver un boulot	Receive an education Have a job			
actuelle soit mauvaise, il faut quand-même	situation is bad, we should	Aux filles, il était interdit de Verb-phrase (pr	For girls, it was forbidden to resent tense)	Gagner de l'argent Être sages avec les adultes	Earn money Be polite to adults			
Ce que je trouve le	The most	Chez moi il y a	Where I live there is	French	English			
plus important, c'est qu'on devrait	important thing, is that we should	Je fais le tri Ma famille ne se déplace pas en voiture	l recycle My family doesn't use a car	ça vaut la peine il faut que je sois honnêt(e)	it's worth it I must be honest			
Nouns (tr En voiture		J'éteinds la lumière	My friend travels I turn off the lights	J'en ai marre	I've had enough			
En train En car	By train By coach	Il faut Je ramasse	You must	si quelqu'un me demandait, je dirais	if someone asks me, I would say			
À vélo À pied	By bike On foot	Verb-phrase (conditional tense)On devraitYou should		je m'en interesse où qu'on aille, quoi	I'm interested in it no matter what we do			
Nouns - Économiser de	+ Verbs Save energy	•	ou could ou must	qu'on fasse	no matter what we do			
l'energie		Dans un monde idéal, li	n an ideal world, we	ça m'enerve je m'en préoccupe	it gets on my nerves			
Ramasser l'eau de pluie	Collect rain water		on devrait would Core Questions		I'm concerned about it I'm afraid of it			
Recycler du papier	Recycle paper	1) Quels droits les enfants	Which rights did	j'en ai peur Pour que je puisse	so that I can/could			
Prendre une douche au lieu	Take a shower instead of a bath	avaient-ils autrefois?	children have in the past?	tu fais des blagues?	seriously?			
d'un bain Arroser les fleurs	Water the flowers	2) Quels sont les problèmes de	Which environmental problems are there in	si j'avais du choix, je voudrais	if I had a choice I would like			
Acheter des produits Bio	Buy organic products	l'environnement à Bognor?	Bognor?	cela m'ennuie à mourir !	It's dead boring!			
Faire la grève manifester Faire du bénévolat	Go on strike protest Do volunteering	3) Où voudrais-tu habiter à l'avenir?	What should we do in the future to protect the environment?	quel que soit le prix à payer	whatever the cost			

Geography

Which countries consume the most energy and what are the impacts of this?



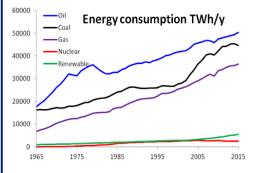
- The map shows that energy consumption is unevenly distributed, with the highest rates of consumption taking place in the developed countries. The lowest rates of consumption are in developing countries; for example, the countries of central Africa.
- 2. Energy is important for industry, transport and homes.
- **3. Social well-being** will be **negatively impacted without** energy as people will not be able to heat homes or turn lights on during the night.
- 4. If you do not have enough energy, economic well-being in the country can be negatively impacted. This is because industries cannot operate, meaning there are fewer jobs which could stop the country from developing. Furthermore, people cannot travel to jobs in other places, as the lack of energy makes travelling difficult.

Why is energy consumption uneven?

Some countries do not have energy reserves; whilst others do not have the technology to exploit their resources. For some countries the only way to access energy resources is to **import** them, which is **expensive**. **Consumption** of resources therefore **depends on wealth** and their **availability**.

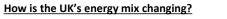
Developed countries and **emerging countries** either have their **own supply** of energy resources or can afford to **import**, therefore, consumption is high, and quality of life is high.

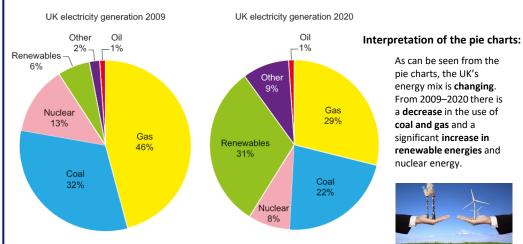
However, in **developing countries** they **cannot afford** to **exploit** their resources or **import** from other countries, so consumption is still relatively low, resulting in a poorer quality of life.



Consumption of energy is growing world-wide:

- Generally, the consumption of energy is growing world-wide.
- Most countries are developing and becoming richer.
 As the countries become more developed, consumption increases.
- Non-renewable energy consumption is still increasing rapidly world-wide. The impact of this can be seen on the next page.





Why is the UK's energy mix changing?

Coal and gas are beginning to **run out**, which means the government has had to look for alternative methods of getting energy.

Due to the reduced amount of coal and gas, **extracting** these non-renewable resources is much more **difficult**. This means the cost of these have gone up, meaning they are becoming too **expensive** for people.

Key terms:

Imports – Goods brought into a country.

Energy consumption - The amount of energy or power used.

Non-renewable energies – Energy, which is finite, is not sustainable and takes a long time to replenish.

Renewable energies – Energy, which is infinite, sustainable and is easily replenished.

Fossil fuels – Another name given to oil, gas and coal (non-renewable energy sources). They are known as fossil fuels because they have developed due to the decomposition of fossilised plants and animals over millions of years.

Well-being - When a person feels comfortable, healthy and happy.

Extraction – To remove a product/ resource from the ground.

Disposable income – The amount of money people have left to spend on themselves, after they have paid for all their bills.

NIMBY – This is an abbreviation for 'Not In My Backyard;' this can often refer to people who support things such as renewable energy, but only if they are not placed near their homes. This behaviour often makes it difficult to get planning permission to build things such as wind turbines.

Geography

Non-renewable energy:

Non-renewable energy sources are **finite**, which means they will **run out** one day.

This energy has normally been produced by the decomposition (breaking down) of fossilised plants and animals.

This process takes millions of years.

Most non-renewables are referred to as fossil fuels and burning them produces greenhouse gases (CO_2).

<u>Coal</u>



Types:

The three main non-renewable energy sources are **oil, gas and coal**. However, **nuclear energy** is also included as a non-renewable. Fracking is a new method of extracting gas from the ground.

Opportunities:

- These energies have been used for a long time, so they are efficient as technology has been made to maximise their energy output. This means they produce a large amount of energy, using a small amount of fuel.
- 2. Oil can be turned into petrol and diesel. These are the most effective way to power transport efficiently.
- **3.** It is easy to transport this type of energy. For example, gas pipes from Russia and Scandinavia deliver gas to the UK. Fuel tankers can transport non-renewable energy sources, meaning they are easy to import.
- A significant amount of jobs created in the extraction of these resources. This produces huge amounts of taxes for the local area e.g. offshore oil and gas, off the coast of Aberdeen in Scotland.

Challenges:

- 1. The cost of **extracting** fossil fuels can be **expensive**. As the reserves run out, extraction becomes more difficult, which means costs increase.
- 2. The burning of **fossil fuels** produces **CO**₂ and greenhouse gases that cause **climate change**.
- 3. Accidents such as **oil spills** or **nuclear disasters** can leak toxic chemicals into water sources, soils and the atmosphere, **killing animals** and posing a significant **risk to human health.**
- 4. Nuclear waste is expensive to dispose of as it is highly dangerous. This pushes up the cost of producing electricity.
- The UK is reliant on importing much of its gas and oil from places like Russia. This can be an issue when the countries have disagreements, leading to some believing that Russia could 'turn off our lights'.
- 6. Reducing coal mining and oil/ gas extraction will lead to the loss of jobs, and an increase in unemployment in certain areas.

Renewable energy:

- 1. These are infinite resources, which means they will not run out.
- 2. The energy is sustainable and is replenished.
- 3. This type of energy production does not require fossil fuels, so therefore greenhouse gases are not produced.



Wind



Types:

The most commonly used renewables are **wind**, **solar**, biomass (burning certain plants e.g. oil rape seed) and **hydroelectric power** (produced by water turning turbines in a dam). Tidal energy is also used at some coastal locations, where there is large tidal movement. **Opportunities**:

- 1. They will not run out, meaning countries such as the UK can be **self-sufficient** and will not need to rely on imports from other countries.
- 2. No greenhouse gases are produced during operation, meaning a reduced impact on climate change.
- 3. Once they have been built set up energy bills will come down in the long term because they require little upkeep.
- 4. New jobs can be created in industries producing these renewable technologies, reducing unemployment in the UK.

Challenges:

Both wind and solar energy are **unreliable**, meaning that little energy is produced during certain times e.g. on a calm day or at night. This means that countries will still need to use some fossil fuels (non-renewables).

Wind turbines are said to be **ugly** and this can create **NIMBYism**, as people are worried that the value of their property will decrease. If they are placed offshore at the coasts, people worry that tourist numbers will reduce meaning lost income for hotels etc.

The initial cost of installing some renewables can be expensive, meaning a short-term increase in energy bills.

Wind turbines can be **dangerous for animals**; for example, they can impact migrating birds. Birds and bats have been killed by the rotating blades.

Hydro-electric power requires the damming of a river and the creation of a reservoir. The reservoir can displace communities.

Fracking in the UK:

What is fracking? Fracking is a process whereby gas trapped in shale rock is released. A drilling pipe is placed into the ground. Water mixed with sand is pumped into the drilling pipe at high pressure. This widens cracks in the ground, allowing trapped gas to escape.

Opportunities of fracking in the UK:

- 1. Blackpool is one area where large fracking sites could be established. Fracking sites around Blackpool could earn **Blackpool Council £1.7m per year**.
- 2. The UK has enough shale gas that we would **no longer need to import gas** from abroad, this would **decrease energy bills by 2%**, meaning people could have more disposable income. It would also mean the UK would be **self-sufficient**.
- 3. Many **jobs** will be **created** in the areas where fracking sites are established. For example, in the north west of the UK, where there are high levels of unemployment. This means the government will make more through taxes.

Challenges:

- 1. Fracking is known to cause **mini earthquakes** in areas where the sites are located, some of these can be high on the Richter scale. There is a fear that this could damage people's properties and result in an **increase in insurance costs** in the areas impacted.
- 2. The water, which is pumped into the ground, can get into the water table. This **pollutes the water** and makes it dangerous to human health. It could also result in poisoning wildlife.
- 3. Countryside areas (**rural areas**) will be **destroyed**; for example, Roseacre Wood, near Blackpool. This will **ruin views** for locals and potentially reduce tourist numbers, which could result in lost income for businesses nearby. Also, habitats would be lost.
- 4. There will be an increase in **noise and air pollution** from the heavy machinery and vehicles. The air pollution could lead to **breathing disorders** in the local area.
- 5. With the visual, noise and air pollution, house prices near the proposed sites would decrease. This would result in homeowners losing huge sums of money. In Roseacre Wood, a 10% reduction is predicted from the average house value of £300,000. This is a £30,000 loss.
- 6. With fracking, gas will still be used, releasing greenhouse gas emissions (CO₂) and contributing to climate change.

LEARN VOCAB			German	В	UILD SENTENCES	
High Level Senter	nce Starters	Verb-phrase (past tense)	Adjectives		
Um die Welt zu verbessern, kann man Obwohl die Situation	To make the world a better place, you can Although the situation is bad,	Fruher durfte man (nicht) Im zwanzigsten Jahrhundert, sollten die Schuler	In the past, you were (not) allowed In the 20 th Century, school children had to	Eine Ausbildung bekommen Einen Beruf haben Geld verdienen Höflich mit den	Receive an education Have a job Earn money	
	we should	Mädchen durften nicht Verb-phrase (p	Girls couldn't		Be polite to adults	
	The most			Erwachsenen sein	Phrases!	
dass [add TOMP	important thing,	In Bognor gibt es	In Bognor there is			
- · · · ·	is that	Ich trenne den Mull	l recycle	Es lohnt sich	it's worth it	
end) Nouns (trans	sport)	Meine Familie benutzt kein Auto	My family doesn't use a car	Wir können es uns nicht leisten	we can't afford it	
Mit dem Auto	By car	Mein Freund fährt	My friend travels	es macht Spaß	it's fun	
Mit dem Zug	By train	Ich schalte die Lichte aus	I turn off the lights	ich bin gut darin	I'm good at it	
Mit den Öffentliche Verkehrsmitteln	By public transport	Man soll	You should	ich interessiere mich dafür	I'm interested in it	
Mit dem Fahrrad	By bike	Verb-phrase (conditional tense)		ich freue mich darauf	I'm looking forward to it	
Zu FuB	On foot	Man sollte	/ou should			
Nouns + V		Man könnte	/ou could	es kommt darauf an	it depends	
Wasser sparen Sa	ave energy ave water ecycle paper	In einer idealen Welt	/ou must n an ideal world we	es geht mir auf die Nerven	it gets on my nerves	
	ve the animals		would	ich mache mir Sorgen	I'm concerned about it	
Duschen statt Ta	ike a shower	Core Qu		darüber		
	stead of a bath ant trees	1) Welche Rechte hatten in der Vergangenheit	Which rights did children have in the	ich habe Angst davor	I'm afraid of it	
Öko-tasche Us	se eco-friendly	Kinder auf der Welt? 2) Welche	past? Which environmental	alles hat einmal ein	everything comes to an	
	ags	Umweltprobleme gibt es	problems are there in	Ende	end	
	aise money for a	in Bognor?	Bognor?	nicht mal im Erst wenn ich die Wähl	seriously? if I had a choice I	
Hilfsorganisation ch sammeln	narity	5	What should we do in	hätte, würde ich	would	
	o volunteering	3) Was sollen wir in der Zukunft machen um die	the future to protect	en.		
machen	ovoluniteening	Umwelt zu schützen ?	the environment?	wenn man mich fragt	if someone asks me	

Second World War (WW2)

History

	Date	Key Events	Leaders			
1	1 September, 1939	Germany invades Poland		Adolf Hitler	Leader of the Nazi Party and Chancellor of	
2	3 September, 1939	Britain and France declare war on Germany (start of WW2)	1		Germany, 1933–1945 (also referred to as the	
3	January, 1940	Rationing introduced across the UK			Führer meaning leader)	
4	May to June 1940	Dunkirk evacuated and France surrenders to Germany		Winston	UK Prime Minister, 1940–1945 (and again from	
4	May to June, 1940	Germany uses blitzkrieg to take over much of Western Europe	2	Churchill	1951–1955)	
		Germany launches air attacks on Great Britain (The Battle of Britain			UK Prime Minister, 1937–1940 (infamous for	
5	July, 1940	and the Blitz begins)	3	Neville	failed attempts to satisfy Hitler's	
		Germany, Italy and Japan signed the Tripartite Pact creating the axis		Chamberlain	demands prior to the war)	
		alliance				
6	7 December, 1941	The Japanese attack the US navy in Pearl Harbor. The next day, the		Franklin D.	US President, 1933–1945 (<i>took the US into</i>	
Ŭ	7 December, 1941	USA enters the war fighting with the allies		Roosevelt	the war following the Perl Harbor attacks)	
7	6 June, 1944	D-day and the Normandy invasion. Allied forces invade France and push		Harry S.	US President, 1945–1953 (responsible for the	
<u>′</u>		back the Germans		Truman	decision to drop Atomic bombs on Japan)	
8	30 April, 1945	30 April, 1945 Adolf Hitler commits suicide		Joseph Stalin	General Secretary of the Communist Party	
9	7 May, 1945	Germany surrenders and victory in Europe is declared the next day	0	Juseph Stalli	and Leader of the USSR, 1929–1953	
10	August 1945	Atomic bombs dropped on Hiroshima and Nagasaki in Japan by the US, killing			'History will be kind to	
		approximately 226,000 people		,	me for I intend to write	
11	2 September, 1945	Japan surrenders signaling the end of WW2			it.'	
12	July, 1954	Rationing ends in the UK			Churchill	

Definition Term 1 Allies Countries who fought on the British side (including: USA, Great Britain, France, Russia (1941–1945)) Someone who was evacuated, moved from a danger area to a safer place (normally from the cities to rural areas) 2 Evacuee System of ensuring no lights were visible after dark so that buildings could not be spotted by enemy planes 3 Black out The controlled distribution of scarce resources (mainly food and clothing) 4 Rationing A building to protect people from bombs dropped by planes Air raid shelter Anderson Shelter: Made of corrugated iron. Usually at the end of the garden Morrison Shelter: Metal cage used inside the house. Could double as a kitchen table A long, narrow ditch used for troops to shelter from enemy fire or attack 6 Trenches Blitz Churchill

'It is not truth that matters, but victory' – Hitler (performing a Nazi salute)







Above left: Enigma machine Above right: Swastika (symbol of Nazis) Below: Remains of a house after a bombing raid during the



Maths

Properties of shapes

When answering questions involving shapes it is essential to understand the properties that each shape has. This may help you to identify a shape or to work out the size of an angle or the length of a side.

Keywords for Properties of Shapes

Point	A single place which may be identified by coordinates and may lie along a side or at a vertex of a shape.
Side	A straight-line segment forming part of the perimeter of a 2d shape.
Edge	An edge is the 3d equivalent of a side on a 2d shape. It is where 2 faces of a 3d shape meet.
Vertex/ Vertices	A vertex (plural vertices) is a corner of a 2d or 3d shape. The location of one or more angle. Where 2 sides or edges meet.
Face	A face is a flat surface forming part of the outer surface of a 3d shape.
Plane	A plane is a continuous flat surface. We sometimes refer to drawing graphs on the XY or cartesian plane. A 3d shape might rest on a plane or be dissected by a plane.
Parallel	Two straight lines or sides (or faces and planes in 3d) are parallel if they are always the same distance from one another, even if they were extended.
Perpendicular	Two straight lines or sides (or faces and planes in 3d) are perpendicular if the smallest angle between them is 90°.
Polygon (regular polygon)	A 2d shape made up of straight line segments. A regular polygon is a shape with every side the same length and every angle the same.

Angles

Where two sides or lines meet, they make an angle between them. The angle is a measure of how much you would have to turn one side to make it lie on top of the other. We measure angles in degrees. The symbol for degrees is °. There are 360° in one complete turn and 180° in a half-turn.

It is important to know the names we use to classify these angles.

\leq	Acute angle Less than 90 degrees	X	Half-turn Exactly 180 degrees
	Right angle Exactly 90 degrees	>	Reflex angle Between 180 and 360 degrees
	Obtuse angle Between 90 and 180 degrees	\bigcirc	Full-turn Exactly 360 degrees

Regular polygons Three sided polygons are called triangles. A regular triangle is called an equilateral triangle. Four sided polygons are called quadrilaterals. A regular quadrilateral is called a square.

8

Here are a few more regular polygons.

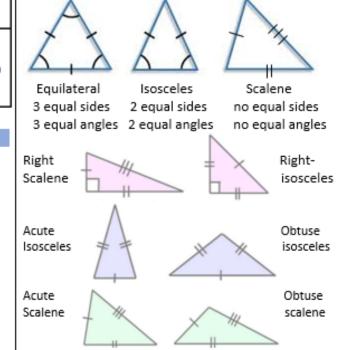


Types of Triangle

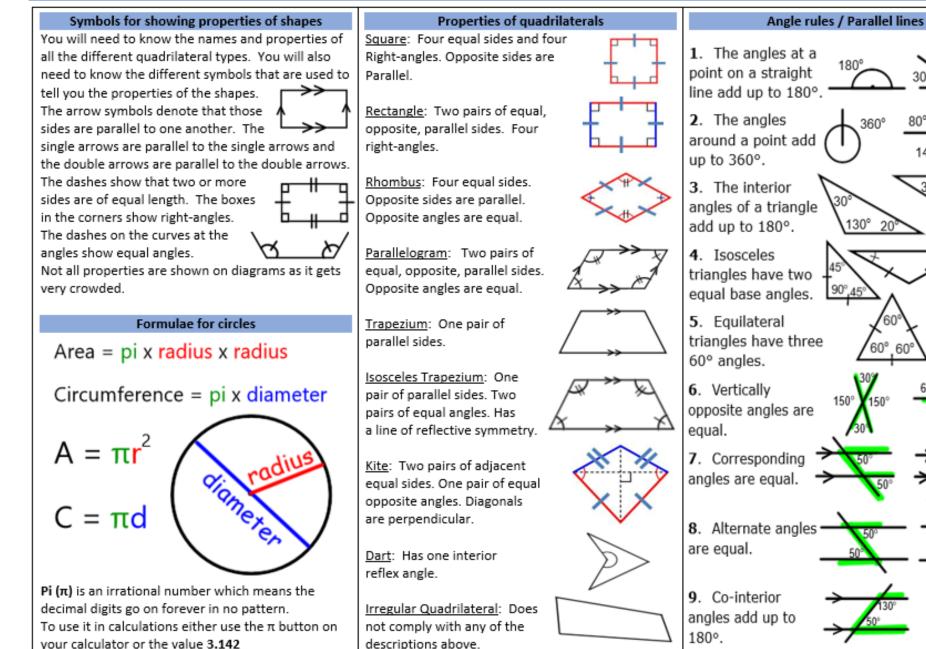
Triangles can be sorted by their properties. All triangles are equilateral, isosceles or scalene. This depends upon how many sides of the triangle have the same length.

An equilateral triangle has all three sides the same length. It also has three identical 60° angles. An isosceles triangle has two sides the same length. The third side could be longer or shorter than these. It has two identical "base angles" which are at the ends of the odd side.

A scalene triangle has all three sides of different lengths. Each of the angles are different too. The isosceles and scalene triangles can also be classed as right-angled, acute or obtuse depending on the size of their largest angle.



Maths



80°

 140°

90°

Music

Rehearsal Skills

1. PRACTISE every day Help your long-term memory – Improve your learning curve.

2. HAVE SPECIFIC GOALS Create specific, attainable goals before you practise.

3. BEGIN WITH THE BASICS Go over technique first – Always have a warm-up plan.

4. FOCUS ON THE TOUGH STUFF Spend your time on what you cannot play – Turn fear into confidence.

5. WRITE IT DOWN Get the most from your practice log – See your goals and accomplishments.

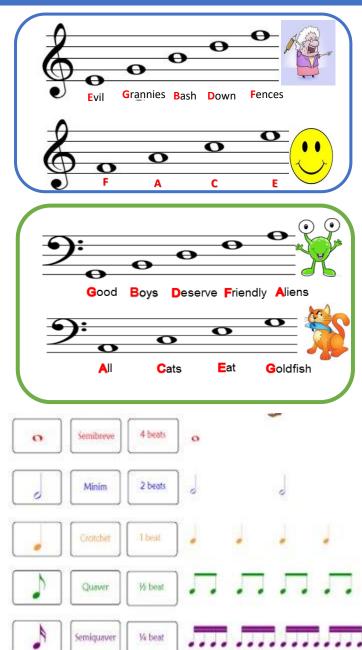
6. SLOW IT DOWN Muscle Memory – Never make mistakes. Learn it right the first time.

7. BREAK IT DOWN Identify musical sections – Don't always start at the beginning. This helps with memorisation.

8. USE A METRONOME Always work on improving your time – Don't stretch time for the Tough Stuff.

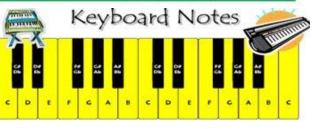
9. ACCENTUATE THE POSITIVE Use positive language in the practice room – Focus on solutions, not problems.

10. CHALLENGE YOURSELF Don't give up, and don't always go for the 'easy' option.



Keywords				
Dynamics		Symbol	Definition	
Fortissimo		ff	Very loud	
Forte		f	Loud	
Mezzoforte		mf	Moderately loud	
Mezzopiano		mp	Moderately quiet	
Piano		P	Quiet	
Pianissimo		pp	Very quiet	
Crescendo		<	Becoming gradually louder	
Decrescendo		>	Becoming gradually quieter	
Tempo		Definition		

<u>Tempo</u>	Definition		
Lento	Slowly		
Largo	Slow and stately		
Adagio	Leisurely		
Andante	At a walking pace		
Allegro	Fast		
Vivace	Lively		
Presto	Very Quickly		



	Physical Education						
Training Methods		Principles of Training			Components of Fitness		
1	Flexibility Training	Static, Ballistic, PNF	1	Frequency	How often do you train? (How many times a week?)	1	Aerobic Endurance
2	Strength Training	Free Weights, Circuit, Plyometric	2	Intensity	How hard do you train? (Heart rate / pyramid, BPM, BORG scale of RPE)	2	Muscular Strength
3	Speed Training	Hollow, Acceleration,	3	TimeHow long you train for? (Minimum 30 mins.)TypeWhat type of training method? (e.g. weight, circuit, interval?)		3	Muscular Endurance
		Interval	4			4	Flexibility
4	Aerobic Endurance	Continuous, Fartlek, Interval		Additional Principles of Training			
	Training		1	SpecificityTraining specific to the individual needs of athlete		5	Speed
	Fitness	s Tests	2	Progressive	Make training gradually harder	6	Body Composition
1	Body Composition	BMI, BIA, Skinfold Callipers		Overload	so body gradually improves and adapts		
2	Aerobic Endurance	Multi-stage Fitness Test, Forestry Step	3	Adaptation	Body adapts in response to training	7	Power
3	Speed	Test 35 m Sprint	4 Reversibility		Body will reverse back if training is stopped for a	8	Agility
4	Strength	Grip Dynamometer			prolonged time	0	Balance
5	Flexibility	Sit and Reach	5	Variation	Training must be varied to avoid boredom	9	Datafice
6	Muscular Endurance	Sit Up / Press Up	6	Individual Differences	Training must be suited to each persons needs	10	Coordination
7	Agility	Illinois Agility	7	Rest and Recovery	y Avoid injuries due to fatigue / tiredness	11	Reaction Time
8	Power	Vertical Jump					

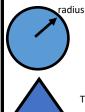
Product Design – Maths, Drawing and Evaluation

Area -

Description: the two-dimensional space taken up by something - for example, the area of a sheet of material like card.

Measured in a size appropriate to the problem – either cm² or m² for larger problems.

Area of a rectangle = width × length width



Area of a circle = πr^2 length $\pi = 3.142$ The radius is half the diameter The circumference of a circle = πD

> The area of a triangle = base × height 2

Distribution curve.

You need to be able to graphically represent data like this.

This is a good way of showing a collecting of measurements. For example, collect the heights of all the students in your year group and show the data in the yellow graph.

From this, you can see the average and the sizes either side

to help you design products better.

50-"Bell Curve" 40-30-20-10 100 120 140 160 180 200

Person 4 head size 360 mm

Average or Mean

The adding up all the data you have and dividing by the number of sets of data you have. Example: you want to know the average head size so you can design a hat that would fit an average person. Person 3 head size 520 mm

Person 1 head size 420 mm Person 2 head size 480 mm

The Average = 420 + 480 + 520 + 360 = 445

Δ

For you to do

1). What is the average bottle volume size from 140 ml, 210 ml, 183 ml, 189 ml, 112 ml and 439 ml?

2). What is the mean shoe size? 10, 6, 9, 8, 15

You need to also understand that abnormal measurement could effect you averages. From those last examples, can you spot the abnormal measurement that you may like to take out to get a better average?

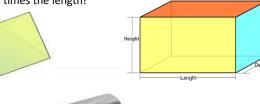
Volume

Description: the space taken up by something. For example, the volume of a material like wood or plastic - or even gas.

Measured in a size appropriate to the problem – either cm³ or m³ for larger problems.

Applications

This could be useful to work out the volume of a material and therefore its cost, or the amount of paint or other liquid used if we use litres or ml instead of cm or metres. For any solid with a linear cross-section (the same shape all way along) the volume is just the end area times the length!





Volume – *examples*

For the shapes above, put together some examples and work out the volumes.

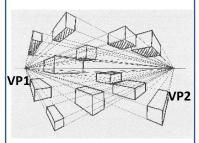
<u>Stretch</u> – what if you have a more complex shape like a house – how would you work out the volume now? Would it not be just the area of a rectangle and

that of a triangle times the length?



CREATIVE

Isometric drawing: used for practising drawing in 3D for design ideas. Ask for isometric paper to practise on!



Perspective drawing: Often used architecture. All lines that are not vertical go back to vanishing points.

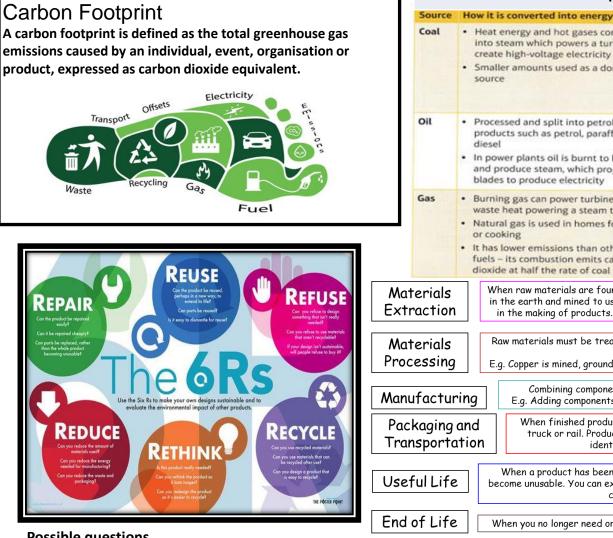
Estimation – You must be able to estimate

(accurately guess) ROUGHLY what the answer to a problem may be. For this, you could round figures up or down and work the easier answer out in your head so you know whether your calculator answer is correct later.

Literacy: Be able to write an evaluation

- What skills have you learnt during this project?
- What skills have you developed (improved)?
- What aspects (parts) of your project do you think have gone well?
- What aspects of your project do you think have gone badly?
- Compare your finished project to your final design drawing, what changed did you make and whv?
- If you were given a chance to re-do the project, what would you do differently?

Product Design – The Environment



Renewable Energy Resources

Disadvantages

Heat energy and hot gases convert water . Stable, large-scale and Coal power plants emit pollution into steam which powers a turbine to high-power electricity such as carbon dioxide, sulfur, create high-voltage electricity generation mercury, selenium and arsenic Smaller amounts used as a domestic heat. Relatively cheap to Technologies to reduce coal power source extract and convert plant emissions are expensive Reliable Coal mining impacts significantly on the landscape · Processed and split into petroleum Stable, large-scale and · Oil power plants are highly products such as petrol, paraffin and high-power electricity polluting diesel generation · Oil exploration impacts on the In power plants oil is burnt to heat water Relatively cheap to landscape and produce steam, which propels turbine extract and convert Oil extraction risks environmental blades to produce electricity disasters · Burning gas can power turbines, with the · Stable, large-scale and Burning gases are highly polluting. waste heat powering a steam turbine high-power electricity generation Natural gas is used in homes for heating. or cooking · Relatively cheap to convert and extract as It has lower emissions than other fossil fuels - its combustion emits carbon ready-made fuel dioxide at half the rate of coal Cleaner than coal or oil When raw materials are found in the earth and mined to use in the making of products. Raw materials must be treated processed before companies can use them to make products. E.g. Copper is mined, ground, heated and treated to isolate the pure metal. Combining components and materials to make a product come together. Manufacturing E.g. Adding components to a circuit board for a product to work electronically. When finished products are boxed and moved by plane, Materials Packaging and Extraction truck or rail. Products are boxed for protection and Transportation identifies the contents. Recycling Materials When a product has been used for a length of time until it Processing become unusable. You can extend the life of a product by taking Product care of it. Disposal Life cycle When you no longer need or want a product. Manufacturing When companies accept working products Reuse and offer them to organisations. End of Life Packaging and Transportation When products are thrown in the rubbish that Disposal results in land fill or incinerated. Useful Life When companies accept products to dismantle and Recycling reuse certain raw materials.

1. For a named product, use the product 'life cycle' circle to explain it's carbon footprint.

2. Use the six Rs to explain three ways that the school could have less of an environmental impact.

Religious Education

<u>Sikhism</u>		Belief	Explanation		
Keyword	Definition	Dene.			
Guru	A spiritual teacher	Guru Nanak	Guru Nanak was the founder of Sikhsim. He believe that everybody was equal and showed this through the story of the Sacred Thread.		
Sikh	A disciple or learner	IVGHUN	He believed that there should be religious tolerance. He said that there was only one God.		
Waheguru	God, the wondrous enlightener		there was only one Gou.		
Equality	Treating all people the same	The Ten	After Guru Nanak died there was a succession of Gurus. These Gurus lead and taught the Sikhs. Some died for their faith as martyrs.		
Guru Granth Sahib	The Sikh holy book / holy scriptures	Gurus			
Religious tolerance	The belief that all people should be treated the same, no matter what race or religion they come from	The Guru Granth Sahib	The Guru Granth Sahib is the Sikh holy scriptures. It is written in Gurmukhi, which literally means 'from the Guru's mouth'. It is made up of the teachings of the Gurus. Sikhs believe that it is the 11 th and		
Martyr	A person who is killed because of their religious or other beliefs		final Guru. It is recited aloud in the Guru Granth Sahib and every night is 'put to bed' in the Rest Room.		
Mool Mantra	Sikh statement of faith and prayer recited each day. It means basic teaching and is found at the start of every section of the Guru Granth Sahib	Equality	Sikhs believe that all people should be treated the same; it doesn't matter about their race, religion, gender or the amount of money they have.		
lk Onkar	Symbol that represents the One supreme reality that sustains all				
Justice	Fairness; treating people the same	Religious Tolerance	Guru Nanak taught that people should be tolerant of other people's religious beliefs; this means that they should be treated the same		
Gurdwara	A Sikh place of worship		regardless of their race or religion. Guru Nanak did not oppose Muslims and Sikhs who were living in India at the time when he		
Gurmukhi	The language the Guru Granth Sahib is written in. It literally means 'from the Guru's mouth'		founded Sikhism.		
Rest Room	The room in the Gurdwara where the Guru Granth Sahib is taken to bed each night as a mark of respect for the Guru	God – Waheguru	Sikhs believe in one God only – Waheguru, the wondrous enlightener. Waheguru is omnibenevolent, omniscient, omnipotent and omnipresent. The Mool Mantar is found at the start of every		
Omnibenevolent	All-loving		section of the Guru Granth Sahib and describes God for Sikhs.		
Omnipotent	All-powerful				
Omniscient	All-knowing		e links below and extend your knowledge on:		
Omnipresent	Always there	BBC Bitesize GCSE Sikhism: <u>https://www.bbc.com/bitesize/topics/zws4d2p</u>			
Monotheist Someone who only believes in one God			My Religion: Sikhism video clips: ww.bbc.co.uk/programmes/b05p6t8s/clips		

Religious Education

<u>Sikhism</u>		Belief Explanation		
Keyword Khalsa Amrit	Definition A groups of Sikhs who made a special commitment to their religion Holy water that is taken as part of the amrit	Khalsa	The Khalsa is a group of Sikhs who have made a special commitment to their religion. The Khalsa was started by Guru Gobind Singh at Vaisakhi when he asked who was willing to die for their faith. Five men volunteered and these men became the Panj Piare, the 'beloved ones' and the first members of the Khalsa. A Sikh who commits to becoming one of the Khalsa is called an Amritdhari Sikh. To join the Khalsa and become amritdhari, a Sikh must take amrit (holy water) in a special ceremony.	
	ceremony when a Sikh joins the Khalsa			
Vaisakhi	The birthday of the Khalsa, when Guru Gobind Singh made the Panj Piare the first five members of the Khalsa	The 5 Ks	The 5 Ks are five symbols worn by many Sikhs as a way of showing devotion to their religion and to God. The Kara is a steel bangle that reminds Sikhs to make good decisions. The Kesh is uncut hair; Sikhs believe that hair is a gift from God and do not	
Amritdhari	A Sikh who has joined the Khalsa		cut it as a sign of respect. Khanga is a comb that reminds Sikhs to keep their mind	
Panj Piare	The five 'beloved ones'; the first five members of the Khalsa		and body clean. The Kirpan is a sword or dagger which represents the defence of the fait and those who can't defend themselves. The Kachera are undergarments worn underneath clothes that remind Sikhs to be modest.	
5 Ks	Five symbols that Sikhs wear to show commitment to their faith	Bhai Kanhiaya	Bhai Kanhiaya was an inspirational Sikh who during a battle gave water and aid wounded soldiers on both sides. He inspires Sikhs to treat everyone equally and help and serve others regardless of their race or religion. The Indian Red Cross inspired by the example of Bhai Kanhaiya.	
Kesh	Uncut hair			
Khanga	Comb	Sewa	Sewa is selfless service and should be performed by Sikhs without thinking of reward.	
Kirpan	Sword or dagger		There are three types of sewa: Tan, physical service; Man, mental service and Dha material service. Langar Week and Khalsa Aid are both special examples of sewa.	
Kara	Steel bangle	Langar	Langar is a free meal cooked in the Gurdwara, which anyone can attend. The meal i	
Kachera	Undergarments	Langar	usually vegetarian so that no-one is excluded. Langar involves: community because	
Sewa	Selfless service for others		many people come together to eat; equality because everyone sits on the floor (unless there are medical reasons why they cannot do so) and eats the same food regardless of race or religion; sewa (selfless service) because many Sikhs give their time and meansure to preserve the mean language is hold in the language light in the	
Tan	Physical service; serving others with your body			
Man	Mental service; serving others with your mind		time and money to prepare the meal. Langar is held in the Langar Hall in the Gurdwara.	
Dhan	Material service; serving others with your money or possessions	Vaisakhi Day	Vaisakhi Day is a big celebration each year for Sikhs to celebrate the birthday of the Khalsa. There is prayer, langar, and often a parade. Anyone is welcome to attend.	
Langar	A free meal cooked in the Gurdwara, which anyone can attend	BBC Bitesize GCSE Sikhism: https://www.bbc.com/bitesize/topics/zws4d2p		
Langar Hall	The room in the Gurdwara where Langar takes place			
Diwan Hall	Room of prayer where the Guru Granth Sahib is placed during the day	My Life, My Religion: Sikhism video clips: <u>https://www.bbc.co.uk/programmes/b05p6t8s/clips</u> ,		

Science

There is no new content taught in Cycle 3, so the information needed can be found in your Cycle 1 and 2 Knowledge Organisers.

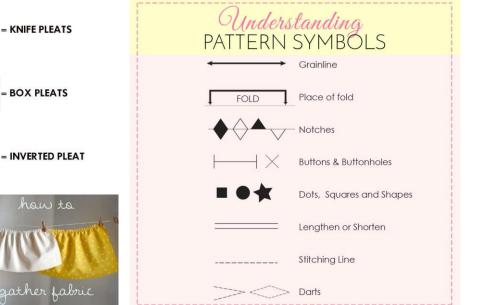
The best ways to revise using your Knowledge Organisers are:

- Look / cover / write / check on all keywords.
- Cover the labels to a diagram and write out those labels.
- Make flash cards with a question on one side and an answer on the other.
- Make a quiz and swap with your friend.

Textiles

techniques and processes Introduction The colour, texture, shape, drape and feel of a BOX PLEATS product will depend on what processing technique has taken place. Keywords = INVERTED PLEAT **Pleating –** A method of folding fabric. They can be ironed or heat pressed to create a permanent crease. how to **Gathering** – a technique used to shorten a piece of fabric, which gives the impression of fullness through ruffling or bunching. **Quilting –** A traditional technique that has differing methods of construction around the world. gather fabric Piping – A decorative trim mainly used as an embellishment, but it can also protect a product making the edge tougher and less prone to wear. Why is g **Further links** www.textileschool.com/464/fabric-cuttingtechniques/ this amount of fabric being used? www.instructables.com/id/how-to-gather-fabric/ **Keywords Working Properties Physical Properties Strength** – the ability of a material to withstand a force such as pressure, tension or shear. Absorbency - how well a material may attract an element, usually a liquid such as water or moisture, but could include light or heat. Density - the mass of material per unit of volume; how compact a material is. Electrical conductivity – the ability to conduct electricity. Thermal conductivity – the ability of a material to conduct heat.

Specialist technical principles: Specialist



Exam Questions
gathering such a popular technique to make curtains?
Stretch

A. A traditional Scottish kilt for the average man uses about 8 m of material. What factors do you think justify B. Why is guilting an ideal technique to use scrap and recycled materials?

Hardness - the ability to resist abrasive wear and indentation through impact. Very hard materials can become brittle and can crack, snap or shatter. **Toughness** – the ability to absorb energy through shock without fracturing.

Malleability – the ability to deform under compression without cracking, splitting or tearing.

Ductility - the ability to be stretched out or drawn into a thin strand without snapping.

Elasticity – the ability to return to its original shape after being compressed or stretched.

Textiles

New and Emerging Technologies: Society

Introduction

Responsible design companies consider the environment before profit. The areas of design that are considered to be responsible include one or more of the following products that:

- Are made from renewable materials
- Reduce carbon emissions and / or other greenhouse gasses in use
- Reuse existing materials or use recycled materials
- Are designed to be 100% recyclable
- Are designed to help or ease suffering or that promote fair trade
- Are made and sold locally to avoid transportation costs and associated pollution
- Are organisations that are not-forprofit and where all money is reinvested to support good causes.

Keywords

Prosthetic – any artificial body part, such as a limb, a heart or retinal implant

Further Links

https://www.designcouncil.org.uk/site s/default/files/asset/document/theprinciples-of-inclusive-design.pdf

Key Facts to Memorise

Design for the disabled

The 1 billion people around the world living with disabilities can benefit from technology to help them live a long, healthy, independent and engaging life:

- Assistive technology, which covers small device such as pencil grips and text-to-speech readers to larger lifting devices and all-terrain wheelchairs that can scale uneven surfaces.
- Prosthetic limb technology where the electrical activity in the body can be harnessed, providing the user with a new degree of control.

Design for the elderly

The average age of the population is increasing. It is important that we address the needs of this part of the population so that elderly people have a purpose and sense of wellbeing:

- Communication and accessible social media or monitoring devices.
- Mobility, including transportation for short distances.
- Independence with mechanical / electronic aids for normal activities at home or away from home.

Christian Dior

https://www.dior.com/couture/en gb/the-house-of-dior/thestory-of-dior?gclid=EAIaIQobChMIt4yKq4C 1wIVYhbTCh3gwl1EAAYASAAEgLdk_D_BwE

https://www.google.com/culturalinstitute/beta/search?q=dior https://www.youtube.com/watch?v=rmVmrhafMb0

https://www.biography.com/people/christian-dior-9275315

http://www.micar.com/history-of-dior/





DESIGN FEATURES







Exam Questions Describe two ways in which the TV remote controller could be used for visually impaired users.

Stretch

- A. Explain two ways in which new and emerging technologies are improving independence of the elderly.
- B. Explain two ways in which new and emerging technologies are allowing individuals who are blind to enter the workplace.