Knowledge Organiser Booklet Year 9 Term 1



Our working memories can only store a limited amount of information, whereas our long term memories can store limitless information. To learn successfully, we need to store core knowledge into our long term memories, so we can retrieve it when we need it.

For instance if you are at work or in the shops and need to work out a 25% discount, you cant memorise 25% of every number, so you need to be able to quickly recall the method for calculating a percentage. Committing core knowledge to our long-term memories is a life-hack. It makes thinking about difficult things easier.

Using a knowledge organiser with regular retrieval activities is a way for you to store core knowledge & subject specific words, into your long term memory so it is there when you need it.



Contents

Clicking on the subjects below will take you directly to the knowledge organisers for each subject. These are to support learning that has taken place this past term. Use these to help reinforce the key knowledge. Use some of the strategies explained in the introduction to help you retain this important information.

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Blended Learning Expectations

Make sure you have <u>access to a computer at home (</u>If you don't please make pastoral staff aware or email <u>langley.homelearning@taw.org.uk</u>)

Download Microsoft Teams on both your phone and computer. (If you don't know how to do this please ask a member of staff or do this in your next computing lesson)

Spend at least 2 hours a week using teams <u>**EVERY</u></u> <u>WEEK.** (Engagement in teams can be tracked and monitored). You need to be accessing each of your class teams and recapping on the previous learning or completing additional tasks set by your class teacher.</u></u>

If you have any issues with teams (e.g. login problems or missing classes etc then please email <u>lang-</u> <u>ley.homelearning@taw.org.uk</u>)

Teams is a tool to support ongoing learning and should **only be used for educational purposes.**



	LOOK, COVER, WRITE, CHECK	DEFINITIONS TO KEY WORDS	FLASHCARDS	DUAL CODING	
AGE 1	Look at & study an area of your knowledge organiser	Write down the key words & definitions	Write key words, dates/formulae, equations/quotes on one side & answers on the other	Draw pictures/diagrams/ cartoon strips	
STI				<u>AN</u>	set
AGE 2	Cover up your knowledge organiser and write everything you remember	Cover up the definitions. How many can you remember? Repeat.	Include pictures or diagrams if it helps. Read through them.	Label your pictures/diagrams/ cartoon strips	er has
ST			10 AM	1 AM	ache
AGE 3	Check. Correct mistakes in green and add anything you missed. Repeat	Check. Correct mistakes in green pen. Which ones do you find hard to remember?	Test yourself and get someone to test you.	Explain out loud to yourself or family/friend what your images show	your te
ST	9 	×	0Q		ork
	SELF QUIZZING	MINDMAPS	PAIRED	SPEAK, COVER,	mew
			RETRIEVAL	WRITE, CHECK	IOL
AGE 1	Use your knowledge organiser to create quiz questions.	Create a mindmap of everything you can remember from your knowledge organiser	Give a family member/friend the knowledge organiser to hold	Read out loud the information from the knowledge organiser several times.	plete
STI		000	<u>d</u>		com
AGE 2	Write down the answers to your quiz	Check your knowledge organiser & use a green pen to make any	Get them to test you using the knowledge organiser	Cover up your knowledge organiser and write everything you remember	ow to
ST		corrections.			I
		XV			

Retrieval Placemat

Look at your knowledge organiser. Now cover it up and write down Key vocabulary & definitons from memory:

First time: Look. Cover. State 3 facts Second time: Look. Cover. State 3 facts

Third time: Look. Cover. State 3 facts

Check & green pen your answers

Look at the knowledge organiser again. Now cover it up and without looking, explain a concept or idea in your own words

Re-read your answer above. Look at the knowledge organiser again. Now cover it up and improve on your previous explanation in green pen.

Retrieval Relay

Look at your knowledge organiser. Now cover it up.

First time: Write down everything you can remember

Second time: Look. Cover. Write down everything you can remember Third time: Look. Cover. Write down everything you can remember

Write down everything here that you didn't remember:

Vocabulary focus 1

Look at your knowledge organiser. Select a key word and write it here:

Write a definition of the key word in your own words - not the same as the one on the knowledge organiser: Write a sentence with the key word in it:

Create a question where the key word is the answer:

What other words are connected to this key word?

Draw a picture or diagram to help you remember this key word:

Vocabulary focus 2

Definition:

Characteristics:

Key word:

Examples:

Non-examples:

What should my knowledge organiser homework look like?

Homework activity written Topic clear and underlined Date Topic : Eartiguakes 13/07/21 Defrictions to key words Epicentre: Directry above une form, mere the version waves hit kint Stage 1 Service waves : Energy waves from form Fours : The point mere pressure is release Stage 2 Epicentre : Where the Unismic waves hit List (drecky above the forms) Sevence wares: Energy waves (from the for +311 Forme The point mere it starts - much green pressure is released must remember hus Stages of homework Key words in a different Green pen colour or underlined activity in margin corrections

What should my knowledge organiser homework look like?



Stages of homework activity as subtitles

Art



Year 9: Unit 1: Drawing Skills



Draw edges not outlines!

Line

outline first is crucial before

adding tone and texture.



Year 9: Unit 2: Structures (Composition)

Composition

- TC34 Recognise different structures in the world.
- TC35 Understand how symmetry, simple geometric shapes, measuring techniques and the grid method can help with accuracy when drawing.
- TC22 Understand how to create a range of tonal values with biro.
- **TC17** Understand that art does not always have to have a blank background on which to work.

Bronze

Composition

- ... understand what a 'structure' is.
- ... research, recognise and name different structures throughout the world.
- ... understand what 'contemporary' means.

Lucv

Jones

- ... understand that many artists, including contemporary artists, have used structures as inspiration for their artwork.
- ... understand what a collaged/textured background is.
- ... understand there is an order in which the work needs to be done.
- ... understand how the grid method can aid accuracy of drawing.
- .. understand how to draw simple geometric shapes to help plan a drawing.
- .. understand the techniques of using graphite/biro to create a





Scales

Monet Variety of Ironbridge images and eraser drawing techniques 回殺網 SCAN ME Tonal



as inspiration for their work.



Rule

of Thirds







Start to include shading using the graphite and black pencil.



A structure is something that is constructed

such as a building or it can be something

organic. It can also be something made up of

components such as an organisation.

Santiago Calatrava. NY City, World Trade Centre Oculus,

Insect structure

Louis Jovier



St Andrews, Birmingham City



Georges Braque

Produce a copy of one of Ian Murphy's artworks.







Buri Khalifa Dubai

Lucy Jones

Structure of a seashell

Artists who have used

a pre-prepared

background

for their work



Composition Technique **Formal Elements** of Art Colour. Line. Shape, Form, Tone, Texture

Pattern

Keywords

Tonal scale

Hatching

Cross hatching

Ellipse

Symmetrical



Contemporary refers to something is happening now, in the present. A contemporary artist is someone who is producing artwork now.

The already-prepared background of a piece of artwork creates a setting or atmosphere that looks professional.

echnique 1: Drawing freehand

When starting to draw, begin with basic shapes and draw them very very softly

- Use measuring techniques, i.e. compare the size of one part agains another to get the proportions of your drawing correct. Image A is a
- Compare heights of different parts. (Which parts are at the same level?
- Look at the negative space in and around the main part of your image to help you draw more accurately









Method



Ian Murphy is an artist who was born in Wigan (England)

n 1963. He produces artwork around natural and urban









Using the eraser, mark in abstract lines inspired by



pen drawing techniques



Sheffield University to do a BA (Hons) degree in Fine Art,



work too. His work is very atmospheri



Year 9: Unit 2: Structures (Clay work)

Clay work

TC24 - Many artists over the years have used clay as a material to produce their artwork.

The six

stages

of clay

- TC26 Understand the different stages of clay.
- TC27 Understand basic clay techniques.

Bronze

Claywork

- ... understand what 'ceramic' means.
- ... understand that clay can be used as a medium for artwork.
- ... understand how to make simple shapes using clay.
- ... select appropriate colours for an industrial style relief.

The 6 Stages of Clay



PLASTIC y you can easily shape and model.













Ceramic means that the item is made of clay and it is permanently hardened by heat.

SCAN ME



Modelling Simple Shapes

Tile work

Slip

SCAN ME







Yr11 Sealife project where clay was used as a material to produce artwork.



raised from a flat base.





Bone dry





Chris Grvder

Artist who have used clay as a material to produce

their artwork.

Glazes



Tivoli red glaze

Iron oxide





Natalie Blake

















Fiord blue glaze



Formal Elements of Art Colour, Line, Shape, Form, Tone, Texture Pattern

Keywords

Composition, Technique, Slip, Plastic, Leather hard, Bisqueware,



Clay Relief







Computing



Read through your knowledge organiser. Next, cover it up or put it away and try tho write down as many of the key facts that you can remember. Use your knowledge organiser to check the fact you have written down. Correct any you may have got wrong.

	Computing Year 9 Unit: Cybersecurity	 Threshold concept— Understand the difference between data and information Understand the basics of the legislation which relate to computers Understand some threats and prevention methods which can be used in Cybersecurity 			
Keyword	Definition	Data Data is just facts and	Information Information is created when that data i	Viruses S Common ways to catch a computer virus:	
Data	Facts and statistics collected together for reference or analysis.	figures: Man City 1	given context: These are football teams that play in the	e Commoding in 1961 at entail attachment Clicking on a webpage pop-up window without reading it Downloading files from	
Information	Facts provided or learned about something or someone	Chelsea 3	league table.	illegal websites	
Data privacy	Intended to keep data safe against improper access, theft or loss	Data Protection Act (2018)	 Organisations must use data: Fairly, openly and in accordance with the law For a specific and stated reason 	The Computer Misuse Act (1990) Makes it illegal to: • Gain unauthorised access to computer material	
Data Protection Act	Controls how your personal information is used by organisations, businesses or the government		 Only in a way that is necessary and sufficient for the purpose for which it was collected Which is accurate and up to date Only for as long as it is needed They must also protect data from loss, damage, 	 Gain unauthorised access to computer material with intent to commit or facilitate other offences Impair the operation of a computer without the authorisation to do so 	
Hacking	The gaining of unauthorised access to data in a system or computer.		and unauthorised access. Types of hackers		
DDoS	A denial of service technique that uses nu- merous systems to perform the attack sim- ultaneously.	Unethical hackers	Gain unauthorised access to or control computer system. Reasons someone might do unethical	of a Case study: WannaCry In 2017, the WannaCry ransomware spread globally through computers	
Computer Misuse Act	An Act to make provision for secur- ing computer material against unauthorised access or modification		hacking: • To steal data • To disrupt services • For financial gain • For political reasons	organisations were impacted from hospitals to schools, banks and charities	
Brute force attack	A brute-force attack consists of an attack- er submitting many passwords or pass- phrases with the hope of eventually guessing correctly.	Ethical hackers	For fun Gain access to a computer system with permission of its aways to belo them	the Contraction of the Contracti	
Malware	Software that compromises the operation of a system by performing an unauthorised function or process.		identify vulnerabilities in their compute systems. Companies pay penetration testers to l	have been been been been been been been be	
Malicious	Intending or intended to do harm.		how to improve the security of their computer systems. These penetration		
Network	One or more computers connected together		testers are ethical hackers.	Classification Danse Danse	

	Computing Year 9 Unit: Media— Photo Editing		 • •	Threshold co Understand what Draw basic vector Understand what	ncept— a real-world problem is. shapes the purpose of a vector graphic is
Keyword	Definition		Bitmap	vs Vec	tor
Graphics	Graphic refers to a design or visual image displayed on a variety of sur- faces, including canvas, paper, walls, signs, or a computer monitor. They are created for entertainment, branding, or providing information.				BITMAP
Pixels	Small squares which make up a graphic				VECTOR
RGB	Red Green Blue		Images are repres	ented pixels (Picture	Y Driebod anadia sivel aslaws are doned
СМУК	Cyan Magenta Yellow Black	G	Elements). TVs and monitors using Red, Green All screen colours	produce pixel colours and Blue light (<u>RGB</u>) can be produced just from	from Cyan, Magenta and Yellow ink (CMY). It is very difficult to colour match between CMY and RGB
Toolbar	Holds the many tools we have to		RGB		
	work with. There are tools for mak-	Common vector image file types			Vector Drawing
	touching images for adding change	File Type	Advantages	Disadvantages	-Vector drawings are computer graphic images
	and type, and many more!	.EPS (vector)	Most common vector type Standard for sharing in print publishing industry	Not widely supported in editing software Generally Adobe only software	that are made using 2-D shapes. -The drawings are connected by lines and curves to
Layer	layering is stacking various images, graphics, or text on top of one an- other.	SVG (vector)	Scalable without image quality reduction International standard for vector	Not widely supported in software Files sizes can be large wit many	form polygons and other shapes, forming a complete picture.
Filter	Filters are digital effects used to	graphics High quality printing possible		elements	can help us to complete vector drawings, including
	modify images and selections to cre- ate effects, repair images, and move pixels.	.PDF (vector)	Widely supported by many devices Free to view PDF files Small file size	Not free to edit PDF files Text difficult to edit, text is treated as images	Google Drawings and Adobe Illustrator. •Many techniques, e.g. zooming, rotating, resizing & duplicating, can help to create accurate images.

Design and Technology



You can make your own questions. This process takes a lot of time, but if you create a study group you can each create a few questions and trade. However it is important that you write what Key facts or knowledge you expect to see in any answer. Threshold Concept

- •To recognise there are different types of forces and these can effect the way a structure is designed to prevent failure.
- •Materials are chosen for their physical and mechanical properties.

•How successful a structure is depends on how it is designed, constructed and used.





Material Properties

Each material has properties that make them good for specific tasks, eg cotton is **lightweight** and **absorbent**. The properties of materials must be considered when designing a product, eg a steel pan handle would **conduct** too much heat and burn the user, whereas beech would be more appropriate as it is **tough** but a poor **conductor** of heat





The parts in tension will have to be able to resist being stretched and those in compression will have to resist being squashed.

These are some examples of material properties you would need to know Conductivity. Corrosion Resistance. Elasticity Density. Toughness. Ductility / Malleability. Hardness.

Plasticity



Unit guiding question: How can we share design ideas with other people?

The threshold concept that is truly essential to enable you to access future learning is ... To understand that ideas can be graphically communicated to other people.

To understand that appropriate 3D drawing techniques can enhance design ideas

To understand that Computers can streamline the design process.

You Will:

- Be able to add simple notes and labels on designs.
- To recognise the different styles of 3D drawing commonly used.
- To be able to use basic rendering techniques.
- To know what CAD is.
- To be able to use CAD to produce simple shapes
- To be able to use drawings and CAD to produce a simple design



The only two angles you need in isometric drawing are 30 degrees and 90 degrees. You never draw horizontally.

A grid is used to help you draw. Staying on the grid lines makes sure you are drawing at the correct angles.



Enhancing drawings. Tone is used to enhance 3D drawings. Tone is how light or dark something is and by showing shadows and highlights we can make drawings look more realistic and 3 dimensional.



Line Drawing

Coloured

THICK AND THIN LINE TECHNIQUE Applying thick and thin line technique to a drawing is one of many ways that a designer can enhance

Rendered using.

shade and tone





Computer Aided Design (CAD) is used to make more accurate drawings and ANNOTATION is added to describe parts of our designs and communicate our ideas.



the form (shape) of a design drawing.

Look carefully at your drawing and imagine a spider walking over the shape.

If the spider is able to disappear around an edge, then this edge will be drawn with a thick line.

If the spider is still visible once it has crawled over an edge, then this edge will be draw with a thin one.

TASK

Go back to the three isometric drawings you did and add thick and thin lines. Try adding a hole to one of them:

> Tup Tip! Follow the spider and make sure the thick lines are correct before you put them in.





Follow this Link to tutorials on the Telford Langley School D&T You Tube channel. **Threshold Concept:**

Different food costs different amounts.

RECIEPT

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IN MILE MERINANCE

All around the world, people choose to eat different food for many different reasons. One very important factor for most people is the cost of the food. There are ways we can cut down on food bills:

- ✓ If the food has been grown or reared locally, travelling and storage costs are reduced
- ✓ Check the price difference between value brands and premium products.
- \checkmark Check out the price per 100g or per 100ml when choosing food
- Check the frozen and canned vegetable section and buy items that are cheaper so you always have a variety in the freezer and the cupboard.



Using leftovers is a great way to save money and reduce food waste.

The way food is prepared and made, along with customs, and the use of local and seasonal ingredients, often combine to create dishes unique to a particular region. Understanding about global cuisine not only allows us to enjoy a huge range of styles and flavours, but also encourages dialogue around culture and inclusivity.

Threshold Concept:

Food is produced all around the world and that different countries and cultures eat different foods



Threshold Concept:

Allergies to food and food intolerances can cause a person to become unwell and that all prepacked food requires a food label that displays certain mandatory information.

Threshold Concept:

Wasting food has environmental and economic

Every year in the UK, seven to ten million tons of food are wasted. It is thought that approximately 50% of the food wasted is still edible. The cost of food waste is significant – estimates show that it costs an average family £700 per year.
Reducing the amount of food consumers waste not only has financial benefits but also environmental benefits. There are many ways in which consumers can help reduce food waste when buying food, cooking and storing food.

Most people can eat food, without any problems, although they may have different likes or dislikes that influence what they choose. However, some people react to certain food and eating them may cause uncomfortable symptoms or, in rare cases, a severe illness. Food intolerance is the general term used to describe a range of adverse responses to food, including allergic reactions, adverse reactions resulting from enzyme deficiencies, pharmacological reactions and other non-defined responses. Allergy sufferers are protected by Natasha's Law, requiring food businesses to include full ingredients labelling on pre-packed for direct sale foods. This information helps people that have food allergies, intolerances or dietary needs to make safe and informed choices when they are choosing food items.

Threshold Concept:

There is a dependent relationship between diet, nutrition and health.

Poor diet is now the biggest risk factor for preventable ill health in England. A healthy diet helps children grow and develop properly and reduces their risk of chronic diseases. Adults who eat a healthy diet live longer and have a lower risk of obesity, heart disease, type 2 diabetes, and certain cancers. as well as affecting our physical health, what we eat may also affect the way we feel. Improving your diet may help to: improve your mood, give you more energy and help you think more clearly.



14 MAJOR ALLERGENS





Year 9 Knowledge Organiser – Design and Technology - Resistant Materials

To understand Plastic is an important and key material used in everyday life Understand that Plastic comes in many different types and can be used to manufacture a wide range of products

Subject Area	Required Knowledge - Bronze		Links
Plastic	 Materials knowledge: Know the 2 main groups of Plastic and that it is sourced from Crude Oil To know plastic is suited to a variety of manufacturing processes Know there is a third group of plastic called BIO plastic 	Gearbox Gearbox Hopper Screw Screw Plastic extrusion Heaters Die Die Die Heaters Die Heaters Die	SCAN ME
DESIGN	 Iteration Design process: Understand a design brief is a list of customer requirements Can improve their design ideas by analysing its strengths and weaknesses Describes their design work in detail using annotation Understand how evaluation helps the design process. 	A is for Aesthetics C is for Cost E is for Customer E is for Environment S is for Size S is for Safety F is for Function M is for Material	SCAN ME
	 Practical skills: Use CAD to draw their design accurately Understand that CAM is used for manufacturing To model their idea using card prototypes produced using CAD/CAM To understand how Line Bending is used to form shapes from plastic 		SCAN ME
	 Environmental. Understands the potential effect extracting, processing and disposal of plastics can have on the environment Understand the benefit of recycling plastic products to reduce the demand on crude oil 	Recycle Rethink Repair the Refuse Reuse Reduce	SCAN ME

 Understand that Crude Oil is not sustainable as a source for manufacturing To understand the 6R's 	

Drama

FLASHCARDS

Create your own flashcards, question on one side answer on the other. Can you make links between the cards?



You need to repeat the QdA process for flashcards you fail on more frequently & less frequently for those you answer correctly Create a flash card with all the key facts you want to learn (this can be drawn in your book). On the next page try writing down as many facts or as much of the knowledge as you can. If you find you are getting certain facts wrong then these are where you need to focus and relearn.

DNA – Denis Kelly A. Storyline A. Storyline The script provides essential information to the actor and suggests stage directions, pauses and the style of emo- move or speak in. For the technical team, it prompts a direction that is needed for the so								department. It racter should ound or stage	p	Director is response practical and creative of a script. They overse productio	ible for the interpretation see the whole n.
	<u>. Storynne</u> . 2007 and is sat i	a tha a sub-	D. II.	tere The second class	<u>D.</u>	<u>inemes</u>		fana tha	-	C. Stage Posit	
DNA was written in	1 2007 and is set in	n the early	Bully	ing - The most obv	omingly has caus	od bis dooth How	m which happens be	sidering who		Upstage Right Upstage	Unstage Left
21st Century. It's a	about a group of t	eenagers,	Deginning	the main bullie	enningly has caus	vnes e g verhal m	ental and physical	sidering who		USR Centre USC	USL
who could be des	cribed as a 'gang'	who have	Gangs -	- Adam is not only	desperate to be p	part of the gang.bu	t consider what the	others are	WIN	Centre Right Centre Stage	Centre Left
accidently killed on	ie of their classma	ites. when	0		prepared to do	to stay in the gan	g.		SS	CSR CS	CSL CS
they realise their n	nistake, they try to	o cover up	Power	– There are nume	rous power strug	gles within the play	y and it shifts throug	ghout. It is		Downstage Right Centre	Downstage Left
the crime but in	nadvertently impli	cate an	Cathy t	that ultimately take	es on the role as g	ang leader in the	end, we should cons	ider why?		DSR DSC	DSL
inr	nocent man.			Other then	nes are responsib	ility, violence, fear	and friendship			AUDIENCE	
					D. Char	acters				•	
Mark and Jan	Leah	Phi	1	Lou	John Tate	Danny	Richard	Cathy		Brian	Adam
Mark and Jan act	Leah is a moral	Phil is the	group's	Lou worries	John Tate	Danny is a	Richard seems	Cathy is viole	ent	Brian is the	Adam is
as narrators who	character who	leader for	most of	about the	starts as the	selfish	unhappy about	and remorsel	ess	weakest group	bullied by the
explain what is	worries about	the play. He	e's quiet,	group getting	group leader,	character who	the cover up,	about Adam	n's	member. He's	group and
happening. They	the groups	emotionle	ss, and	caught. She	but his	is more	but he goes	death. She he	elps	bullied into	thought to
are always	actions. She is	manipul	ative.	follows	authority is	worried about	along with it. He	to kill Adam	n	covering up	be dead. He
help in the cover	sooks Phil's			charge	leaves early in	dentist than		reappears		he suffers a	he alive but
up.	attention.			charge.	the play.	Adam's	leadership.	reappears.	•	mental	Phil has him
					/	wellbeing.	F			breakdown as a	killed.
						_				result.	
	E. Types	s of Theatre			<u>F. Vocal</u>		<u>G. Physical</u>			<u>H. Performar</u>	nce Skills
	1.50	Des .			Types of volu	ume : Whisper,	Gestures: Usin	g movement to	,	Cross-cutting: To s	show contrast
	Sec.				quiet, talking,	loud, shouting.	express emoti	on or direction		on stag	ge.
		-	-	and a	Types of Pitch	: Low, medium,	Facial expression	ns: Used to show	w	Freeze Frame: To	highlight a key
			1000		high Pause : Sti	liness in a scene	emo	otion		mome	nt.
In The Round— t	the Thrust sta	ige sticks out			Pace: Space	alogue d of dialoguo	Body language: Use to show the		e	Narration: To give the audience	
audience sit around	d the into the	audience,	Pros	cenium Arch—	Tone: Emotion	hally influenced	character profile/emotion			Thought track	To give the
stage on all side	es. who sit or	n three sides.	describ	es the frame that	dial	ogue	status/h	ierarchy		audience informa	ation about a
Performers enter	and There is	a back wall	surrou	nds the stage. All	Emphasis: Put	ting importance	Gait: Char	acter walk		charac	ter
exit through the	e that can	be used for	the au	idience face the	on a	word	Eye contac	t : Between		Direct address/as	ide: Speaking
audience on walkw	vays. hanging	backdrops	same v	way. The stage is			actors/a	audience		directly to the audi	ence out of the
	and larg	ge scenery.	raised	1. The seating is			Proxemics: S	pace between		scene	2
		-	0	tten tiered.			actors/a	audience		Multi-rolling: Playing charact	; more than one er

English

QUIZZING

Your questions with a partner & answer.

Question - What is a metaphor?

- A comparison using 'Like, as, than '
- A comparison where one thing is another.
- A comparison with a human attribute.

You can make your own questions. This process takes a lot of time, but if you create a study group you can each create a few questions and trade. However it is important that you write what Key facts or knowledge you expect to see in any answer.

Threshold Concept- Year 9- Dr. Jekyll and Mr Hyde:

TC1 - Understanding texts

TC2 - Demonstrate an appreciation of the writer's craft through analysis and critically evaluative comments.

TC3 - Understanding the relationships between texts and the contexts in which they were written.



Threshold Concept- Year 9- Writing stories:

TC5 - Communicate clearly, effectively, and imaginatively, selecting and adapting tone, style and register for different forms, purposes and audiences.

TC6 - Organise information and ideas, using structural and grammatical features to support coherence and cohesion of texts

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TC7 - Use a range of sentence structures for clarity, purpose and effect, with accurate punctuation and spelling.

Imaginatively writing- use ambitious vocabulary and techniques and come up with an original idea by avoiding cliché!

When writing stories- be as ambitious as possible with your vocabulary and techniques.

Example 1- too simple and safe:

The sky was black and the air was cold. It was scary and I was afraid to be alone in the dark.

Example 1- an improvement:

The sky was a deep crimson and the freezing air gnawed at my whitened cheeks. It was intimidating; the idea of being isolated terrified me.

When planning and writing stories, ask yourself these questions:

- Which stories (books/TV/film/games) do I read/watch/play that inspire me?
- Do I know and regularly use a good range of story writing features, like similes metaphors and personification?
- Do I use the best possible vocabulary in my work to impress my reader?

Avoiding cliché.

An idea that is overused and shows a lack of original thought.

Common settings	Common characters	Common events
-Forests -Parks -England?	-Teenagers, -Narrators with no personality/appearance, -Creepy kids.	-Being chased, -Murdering, -Hauntings.

<u>Don't use these!</u> Think of uncommon settings/characters and use these instead. Your story will stand out far more for the right reasons!

> Teenager in a forest X Elderly explorer up mountain 🍞



-Correct capital letters and spelling- avoid needless mistake.

Literacy



Make sure you are regularly testing your knowledge using the resources provided by the school on platforms such as Sparx, Educake and Linguascope. You will have been issued with user names and passwords to access your accounts.

wledge Orga	niser	Spelling Strategies				
iniougo orgu	Pictures	Other versions of the word				
nctuation	× ✓		H + ear = hear	de <u>fini</u> te, <u>fini</u> te, <u>fini</u> sh		
Question Mark ?	Alot	A lot	O	Word origins		
Use these to indicate a question is being	Would of	Would have	Invent Magmonics	satis – enough		
asked.	Eachother	Each other	Accommodation = Cosy Cottages;	bicycle – two wheels		
Apostrophe	Aswell	As well	Magnificent Mansions	Dictionary	Look,	
Use apostrophes to show possession or	Inbetween	In between	Necessary = 1 collar, 2 socks		Cau	
missing letters.	Homophones				Say,	
Semi-colon	<u>There</u> – Place or position. <u>Their</u> – belonging to them	Where – Place or position. Were – Plural past tense of	Critical self-checking Does it look right?		Cover,	
important parts of a sentence.	They are.	We're – We are/We were.	Syllables	Words within words	Write,	
Brackets () Use these to add extra, non-essential, information to a sentence.	To – Preposition to show motion. Too – Adverb meaning 'also'.	<u>Your –</u> belonging to you. <u>You're</u> – You	Letter Pattern Links light bright sight fight might	business – b <u>us in</u> ess separate – there's a rat in	Check	
	Apostrophe Use these to indicate a question is being asked. Apostrophe Use apostrophes to show possession or missing letters. Semi-colon Use this to join two closely related, equally important parts of a sentence. Brackets Use these to add extra, non-essential, information to a sentence.	Alot Question Mark Pape Use apostrophes to sontence. Semi-colon Juse this to join two closely related, equally important parts of a sentence. Brackets () Use these to add extra, non-essential, information to a sentence.	Semi-colon Semi-colon Semi-colon Semi-colon Use this to join two closely related, equally important parts of a sentence. To - There - Place or position. Brackets Image: Colon to a sentence. Brackets Image: Colon to a sentence. Brackets Image: Colon to a sentence. Brackets Image: Colon to a sentence. Brackets Image: Colon to a sentence. Brackets Image: Colon to a sentence. Brackets Image: Colon to a sentence. Brackets Image: Colon to a sentence. Image: Colon to a sentence. Image: Colon to	Spelling St Spelling St Spelling St Cuestion Mark Prequently Misused Words: Value these to indicate a question is being asked. Prequently Misused Words: Mould of Would have Each other Apostrophe Nould of Would have Each other Aswell Collar, 2 socks Letter P Place Or position. There - Place Or position to Syllab	Spelling Strategies Spelling Strategies Other version Vectuation Semicolon Sust tables of all of them. Minere – Place or position. Or position. Meree – Place or position.	

Parts of a sentence: subject, verb, object.	Examples: Every sentence must have a subject and verb.	Hyphens: are used to combine words that have a combined meaning or are	Examples: three-year-old	
subject: the person or thing carrying out the action.	John ran to the shops.	linked in the grammar of a sentence. They help avoid confusion.	rock-forming minerals long-term	
object: the person or thing that receives the action of the verb.	The opera was sung by the soprano.	Man eating shark- suggests the man is eating shark.	Man-eating shark – suggests the shark eats man.	
Active Voice: When the subject of a sentence performs the verb's action, we say that the sentence is in the <i>active</i>	Passive voice: When the subject is acted on by the verb. The passive voice is always constructed with a different for the plant the work's part.	Semi colons, colons and dashes can be used to separate boundaries between two clauses.	Example:	
voice.	participle and contains by.	Semi colons(;) separate two main clauses and are normally used instead	Some people like sweets; others like chocolate.	
Arthur read an interesting novel.	An interesting novel was read by Arthur.	of a coordinating conjunction.		
The progressive tense: a	Examples: The verbs in the progressive	Colons(:) are used to introduce related information.	He was missing two things: his hat and his coat.	
verb tense used to show an ongoing action in progress at some point in time.	form use a form of "to be" + the present participle (an -ing verb).	Dashes- can be used in place of a colon when you want to emphasize the	The house rule is simple- clean up after yourself.	
Past progressive: contains was, were +	She was playing football.	conclusion of your sentence.		
Present progressive: contains is, are, am	He is reading a book.	Semi colons, colons and bullet points can also be used in lists.	Example:	
Present progressive: contains is, are, am + an -ing verb.	He is reading a book. They are making a cake. I am painting a picture.	Semi colons, colons and bullet points can also be used in lists. Semi colons(;) they are also used to separate items in a list that contain	Example: My dream band would be: Ray, vocals; Arthur, guitar and backing vocals; Rifat,	
Present progressive: contains is, are, am + an -ing verb. Main clause: a clause that can form a	He is reading a book. They are making a cake. I am painting a picture. Subordinate clause: a clause, typically	Semi colons, colons and bullet points can also be used in lists. Semi colons(;) they are also used to separate items in a list that contain commas already.	Example: My dream band would be: Ray, vocals; Arthur, guitar and backing vocals; Rifat, bass; and Tom, drums.	
Present progressive: contains is, are, am + an -ing verb. Main clause: a clause that can form a complete sentence standing alone. Contains a subject and verb. If the main clause comes first no comma is needed.	He is reading a book. They are making a cake. I am painting a picture. Subordinate clause: a clause, typically introduced by a subordinating conjunction, that adds extra information and cannot stand alone.	Semi colons, colons and bullet points can also be used in lists. Semi colons(;) they are also used to separate items in a list that contain commas already. Colons(:) they are also used to present a list.	Example: My dream band would be: Ray, vocals; Arthur, guitar and backing vocals; Rifat, bass; and Tom, drums. I ordered the following: eggs, beans, sausage, bacon and a cup of tea.	
Present progressive: contains is, are, am + aning verb. Main clause: a clause that can form a complete sentence standing alone. Contains a subject and verb. If the main clause comes first no comma is needed. I still had energy for my lessons.	He is reading a book. They are making a cake. I am painting a picture. Subordinate clause: a clause, typically introduced by a subordinating conjunction, that adds extra information and cannot stand alone. I still had energy for my lessons even though I cycled to school.	Semi colons, colons and bullet points can also be used in lists.Semi colons(;) they are also used to separate items in a list that contain commas already.Colons(:) they are also used to present a list.Bullet points. make a list easier to read. There are no capital letters or full stops needed.	Example: My dream band would be: Ray, vocals; Arthur, guitar and backing vocals; Rifat, bass; and Tom, drums. I ordered the following: eggs, beans, sausage, bacon and a cup of tea. Remember to: • wash up everything in the sink • dry the dishes with the towel	
Present progressive: contains is, are, am + aning verb. Main clause: a clause that can form a complete sentence standing alone. Contains a subject and verb. If the main clause comes first no comma is needed. I still had energy for my lessons. I crept inside the room.	He is reading a book. They are making a cake. I am painting a picture. Subordinate clause: a clause, typically introduced by a subordinating conjunction, that adds extra information and cannot stand alone. I still had energy for my lessons even though I cycled to school. Although I was feeling scared, I crept inside the room	 Semi colons, colons and bullet points can also be used in lists. Semi colons(;) they are also used to separate items in a list that contain commas already. Colons(:) they are also used to present a list. Bullet points. make a list easier to read. There are no capital letters or full stops needed. 	Example: My dream band would be: Ray, vocals; Arthur, guitar and backing vocals; Rifat, bass; and Tom, drums. I ordered the following: eggs, beans, sausage, bacon and a cup of tea. Remember to: • wash up everything in the sink • dry the dishes with the towel • pack everything away on the shelf	
 Present progressive: contains is, are, am + an -ing verb. Main clause: a clause that can form a complete sentence standing alone. Contains a subject and verb. If the main clause comes first no comma is needed. I still had energy for my lessons. I crept inside the room. Synonyms: words that have the same or similar meanings. 	We were eating dinner. He is reading a book. They are making a cake. I am painting a picture. Subordinate clause: a clause, typically introduced by a subordinating conjunction, that adds extra information and cannot stand alone. I still had energy for my lessons even though I cycled to school. Although I was feeling scared, I crept inside the room. Antonyms: words that have the opposite meaning	Semi colons, colons and bullet points can also be used in lists. Semi colons(;) they are also used to separate items in a list that contain commas already. Colons(:) they are also used to present a list. Bullet points. make a list easier to read. There are no capital letters or full stops needed. Subjunctive form: it is used to express wishes, hopes, commands, demands or suggestions. Usually it is the third-	Example: My dream band would be: Ray, vocals; Arthur, guitar and backing vocals; Rifat, bass; and Tom, drums. I ordered the following: eggs, beans, sausage, bacon and a cup of tea. Remember to: • wash up everything in the sink • dry the dishes with the towel • pack everything away on the shelf Example: I wish I were able to fly. It is vital that she attend the meeting.	

Simple tenses	Example		Perfect tense	Example		
Past - when an action took place at a specific time and is <u>now finished</u> . Present - when an action is taking <u>place now</u> .	on took place at a I <u>walked</u> int now finished. action is taking I <u>walk</u> into t		I <u>walked</u> into the monster's cave.		Past perfect - is used to say when an action was completed in the past. The past tense of 'to have' + past participle of verb.	I had walked in the monster's cave.
Future - when an action will take place <u>in the future.</u> Progressive tenses	I <u>will walk</u> into the monster's cave. Example		 Present perfect - is used to say when: 1) An action has recently finished using 'just', 2) An action that has started in the past 	I have just walked in the monster's cave.		
Past progressive - used for a continuous a the past. The past tense of 'to be' + present partic verb (verb ends in -ing).	action in ciple of the	I was walking in the monster's cave. He/She was You/We/They were	 and is still going. The time period has not finished. When the time period is not important or known. 	bank for five years. I have not seen her today. I have studied French, Russian and German.		
Present progressive - used for an action the happening at the moment of speaking.	that is	I am walking in the monster's cave.	 The action is repeated in a period between the past and now. 	I have eaten at that restaurant several times.		
The present tense of 'to be' + present participle of the verb (verb ends in –ing).		He/She is You/We/They are	The past tense of 'to have' + past participle of verb.			
Future progressive - used for an action the continuing in the future. The present tense of 'to be' + present part the verb (verb ends in –ing).	nat is will be articiple of	I will be walking into the monster's cave. He/She will be You/We/They will be	Future perfect -is used to say when an action will have been completed in the future. The future tense of 'to have' + past participle of verb.	I will have walked in the monster's cave.		

Word class: Nouns				Word class:		
Proper noun - name, place, month- always starts with a capital letter		e.g. John, South Woodford, March James went to the supermarket.		Adjective- describes a noun	e.g. blue, small, gentle The <u>white</u> snow	
Concrete nouns - things you experience through your five senses		e.g. table, pencil, chocolate, music In my bag I have many things including an <u>apple.</u>		Verb - an action, sta or occurrence	te e.g. run, was, work The sun <u>is</u> hot so I	
Abstract nouns - ideas and cond can't touch them	epts; you	e.g. truth, justice, anger I feel <u>hope f</u> or the future.		Adverb - modifies th	play in the garden.	
Pronoun - replaces a proper nou common noun	Pronoun - replaces a proper noun or common noun		used it in his book.	meaning of an adjective, verb or other adverb.	soon I liked the cuddly rabbit best.	
Collective noun - a noun that re group of individuals	efers to a e.g. herd, class, pack A <u>gaggle</u> of geese were		the pond.	e pond. Expresses manner, place, time or degre		
Word class: Determiner	A modifying	word that determines the	rd that determines the Word class:			
	group has	ence a noun or noun	Prepositions - show the between the noun or p	e relationship ronoun and other	e.g. after, in, with He moved here <u>after</u> the	
Article - tells us the definite or indefinite	e.g. a/an, the <u>The tree is bea</u>	autiful in autumn.	words in a sentence. The example, the position of time when something h	ney describe, for of something, the nappens, or the	end of the war.	
Quantifier - indicates quantity	e.g. few, many <u>Lots</u> of fun wa	ı, some s had at the party.	way in which something is done Co-ordinating conjunction - a conjunction placed between words, phrases, clauses, or sentences of equal importance (main			
Possessives - indicates who it belongs to	e.g. my, its, his That is <u>her</u> coa	s at.			e.g. for, and, nor, but, or, yet, so I like chocolate <u>but</u> I don't	
Demonstratives - points to	e.g. this, that,	those	clause)		like sweets.	
Numbers - tells us how many	e.g. one, two, Seven dwarve White.	three s accompanied Snow	Subordinating conjunction - a conjunction that introduces a subordinating clause		e.g. while, since, although I went to the cinema <u>after</u> I had eaten my dinner.	

Geography



Organise your ideas into a concept map, like the one below that summarises 'cells'. In a concept map, you take the main ideas and link them together with phrases that explain the relationship between the concepts. But, always try to make the concept map from memory first! Then check it with the knowledge organiser

Tectonics Knowledge Organiser

Structure of the Farth

The Farth has four main layers the inner core, the outer core. the mantle and the crust. - The **inner core** is

extremely hot and is a very dense solid.

- The outer core is 2,000 km thick and is a liquid.
- The mantle is semi-molten and about 3,000 km thick.
- The crust is the rocky outer layer; it is thin compared to the other sections, approximately 5 to 70 km thick.

Constructive plate margin

A constructive plate margin occurs when plates move apart. Volcanoes are formed as magma wells up to fill the gap, and eventually new crust is formed. Earthquakes occur here also. **E.g.** North American and Eurasian plates forming the mid-Atlantic Ridge.



Destructive plate margin

Destructive plate margins occur when tectonic plates move towards each other and collide. The effect this has depends on what kinds of plates are colliding:

occur there.

Plate tectonics

they bump into, move

away from, or rub up

against other plates at the

plate margins. How these

plates move in relation to

other plates dictates what

type of plate margin it is

and helps us understand

what types of hazards will

core

Crust

Mantle

Outer Core

Inner Core

Plate margin: where two or more plates meet

Convection currents: movement within the Earth's mantle caused by the heat of the

The Earth's crust is broken up into huge slabs called plates. The plates float on the





- If two continental plates collide, they are both buoyant and so cannot sink into the mantle. As a result, compression forces the plates to collide and form fold mountains. E.g. The Indian & Eurasian plates formed the Himalayas.

- If an *oceanic* and a *continental* plate **move** towards each other, the denser oceanic plate is subducted and sinks under the continental plate and into the Earth's mantle, where it is recycled. Earthquakes, fold mountains and volcanoes occur. E.g. The Nazca & South American Plates.



Conservative plate margin

A conservative plate margin occurs where plates slide past each other in opposite directions, or in the same direction but at different speeds.

Friction is eventually overcome and the plates slip past in a sudden movement. The

shockwaves created produce an earthquake. **E.g.** The North American and Pacific plates forming the San Andreas



Fault in California.

Tectonics Knowledge Organiser

Volcanoes

Volcanoes are vents to the interior of the planet - they allow magma from the mantle to spill out as lava onto the Earth's crust. There are 2 types of volcanoes, shield and composite.



A **shield volcano** has gently sloping sides and runny lava that covers a wide area.

A composite volcano is steep sided and cone-



shaped, it is made up of layers of ash and lava. The lava is sticky so it does not flow far.

Case Study: Iceland



This volcano began erupting lava on 20th March 2010. Impacts of the eruption include:

-Melting of large amounts of ice which led to flooding in Southern Iceland -Ash from the volcano contaminated their local water supplies -All over Europe airplanes were grounded until the air cleared

-The ash deposited iron into the North Atlantic triggering a plankton bloom

Earthquakes

Earthquakes are the sudden violent shaking of the ground. This happens because the Earth's plates are constantly moving. Sometimes, because of <u>friction</u>, plates try to move and become stuck. <u>Pressure</u> builds up because the plates are still trying to move. When the pressure is



released, it sends out huge amounts of <u>energy</u> causing the Earth's surface to shake violently. The point inside the Earth's crust where the earthquake originates from is known as the <u>focus</u>. The earthquake's energy is released in <u>seismic</u> waves and they spread out from the focus. The <u>epicentre</u> is the point on the Earth's surface directly above the focus. The seismic waves are most powerful at the epicentre.

Case study: Haiti vs Japan Earthquakes

	Haiti 2010 (LIC)	Japan 2011 (HIC)
Magnitude	7.0	9.0
Death Toll	250,000	15,894
Injured	300,000	6,152
Social Impacts	Over a million made	500,000 people
	homeless, schools and	evacuated
	hospitals destroyed,	
	looting and violence	
Economic	20,000 businesses	56 bridges and 26
Impacts	lost, roads and	railways destroyed or
	bridges destroyed	damaged
Environmental	Contaminated water	Triggered tsunami &
Impacts	supplies	nuclear meltdown
Cost to rebuild	\$10/ £7.8 Billion	\$309/ £189 Billion

Tsunami

Tsunami is a Japanese word which means **'harbour wave**'. A tsunami is a large sea wave caused by the displacement of a large volume of water. They can be caused by earthquakes triggered by moving sections of the Earth's crust under the ocean. Tsunamis have many social, economic, and environmental impacts depending on where they hit and their size.



Managing hazards

There are 3 things we can do to lessen the affects of earthquakes, the 3 Ps.

<u>Prediction</u> - Using technology to estimate when and where we think an earthquake is going to happen. We often know where one will happen but it is difficult to figure out when it will.

<u>Protection</u> - Putting measures in place to help protect people during an earthquake. The most important and common one is **building special buildings that will not collapse -** <u>aseismic</u>

<u>Preparation</u> - This is all about getting ready for when the next one comes. It includes **special drills and practices so people know what to do, and preparing materials in advance**.

History



You can make your own questions. This process takes a lot of time, but if you create a study group you can each create a few questions and trade. However it is important that you write what Key facts or knowledge you expect to see in any answer.

Year 9 - History Knowledge Organiser - Unit 1 - What impact did the Holocaust have globally?



Threshold Concepts linked to this unit: The Holocaust was the first event classed as a genocide however it linked to the persecution of minority groups which had been previously persecuted within Europe

TC28 The Holocaust was a significant event globally and its legacy can still be felt today

<u>Key fact</u> The Holocaust is considered one of the most important parts of history for all students to be taught about. This allows us to learn about what happened so we can identify if history tries to repeat itself, so we can stop it.

Maths

QUIZZING

Create practice questions on a topic Swap your questions with a partner & answer.

Question - What is a metaphor?

- A comparison using 'Like, as, than '
- A comparison where one thing is another.
- A comparison with a human attribute.

You can make your own questions. This process takes a lot of time, but if you create a study group you can each create a few questions and trade. However it is important that you write what Key facts or knowledge you expect to see in any answer. YEAR 9 — REASONING WITH ALGEBRA

@whisto maths

WITH ALGEBRA... Straight Line Graphs



YEAR 9 — REASONING WITH ALGEBRA... Evenisto_maths Forming and Solving Equations

What do I need to be able to do?

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

Solve inequalities with negative numbers

Solve inequalities with unknowns on both

Substitute into formulae and equations

sides

Rearrange formulae

Solve equations with unknowns on both sides |

||<u>Keywords</u>

- **Inequality**: an inequality compares who values showing if one is greater than, less than or equal to another
- Variable: a quantity that may change within the context of the problem
- Rearrange: Change the order
- Inverse operation: the operation that reverses the action
- Substitute: replace a variable with a numerical value
- Solve: find a numerical value that satisfies an equation



YEAR 9 — REASONING WITH ALGEBRA... Whisto_maths Testing conjectures



YEAR 9 - CONSTRUCTING IN 2D/3D.



YEAR 9 — CONSTRUCTING IN 2D/3D... *Constructions & congruency*



Numeracy



Make sure you are regularly testing your knowledge using the resources provided by the school on platforms such as Sparx, Educake and Linguascope. You will have been issued with user names and passwords to access your accounts.



Numeracy - number facts Know number facts. Number por times tables, doubles and halves

Know number facts. Number bonds,

What do I need to be able to do?

- Know number bonds up to 10 .
- Using the inverse of adding, know number . families
- Square numbers .
- Multiplication tables
- Use strategies to calculate the double of a . number, or its half.

Keywords

Number bond: A relationship between 2 numbers that give a known value

- Fact families: Extending a number bond to include other facts that use the inverse operation
- Inverse operation: The opposite calculation
- Square numbers: The answer calculated when a value has been multiplied by itself

Multiplication tables: The answers to each value below and including 10, multiplied by each value below and including 10. Usually set into a grid Calculation strategies: Use prior knowledge to further calculate an answer



Fact Families By using the inverse of addition, number bonds using subtraction can extend knowledge to include more facts

1 + 9 = 10	2 + 8 = 10	3 + 7 = 10	4 + 6 = 10			
9 + 1 = 10	8 + 2 = 10	7 + 3 = 10	6 + 4 = 10			
10 - 1 = 9	10 - 2 = 9	10 - 3 = 7	10 - 4 = 6			
10 - 9 = 1	10 - 8 = 2	10 - 7 = 3	10 - 6 = 4			
5 + 5	5 + 5 = 10 $10 - 5 = 5$					
6 + 4 = 10	7 + 3 = 10	8 + 2 = 10	9 + 1 = 10			
4 + 6 = 10	3 + 7 = 10	2 + 8 = 10	1 + 9 = 10			
10 - 6 = 4	10 - 7 = 3	10 - 8 = 2	10 - 9 = 1			
10 - 4 = 6	10 - 3 = 7	10 - 2 = 8	10 - 1 = 9			
10 + (= 10	10 - (= 10			

Double and Half

4 x 4 =

5 x 5 =

16

25

9 x 9 =

 $10 \times 10 =$

81

100

Double of a number is to multiply by 2 or add Double 3, 2×3 , 3 + 3 = 6



Multiplication Tables	v	1	2	0	1	5	6	7	0	0	10
	~		4	9	4	0	0	/	0	7	10
	1	1	2	3	4	5	6	7	8	9	10
$3 \times 6 = 18$	2	2	4	6	8	10	12	14	16	18	20
	3	3	6	9	12	15	18	21	24	27	30
	4	4	8	12	16	20	24	28	32	36	40
	5	5	10	15	20	25	30	35	40	45	50
	6	6	12	18	24	30	36	42	48	54	60
	7	7	14	21	28	35	42	49	56	63	70
	8	8	16	24	32	40	48	56	64	72	80

72

80 90

table

81

63

70

60

0 8 times ta

90

100

9 18 27 36 45 54

10 20 30 40 50

O 7 times table

2×7=14

4 × 7 = 28

Ask your teacher for copies to learn

9

10

Learn them!!

Numeracy - mental calculations

Use what you know





MFL - French

FLASHCARDS

Create your own flashcards, question on one side answer on the other. Can you make links between the cards?



You need to repeat the Q&A process for flashcards you fail on more frequently & less frequently for those you answer correctly Create a flash card with all the key facts you want to learn (this can be drawn in your book). On the next page try writing down as many facts or as much of the knowledge as you can. If you find you are getting certain facts wrong then these are where you need to focus and relearn.

French Year 9 Autumn Term – Healthy Living

Objective: To discuss healthy living

Threshold Concepts:

- In French, like in English, the near future tense is used to express what is going to happen.
- In French there is no present progressive tense, so it is formed using the present tense of the verb "aller", together with an infinitive (ending in -er, -ir, -re).
- In French the word "depuis" (translated as "for") is used to refer to how long something has been happening. In English this is used with the present perfect progressive tense (have been ...ing); in French it is used with the present tense.
- In French there is no one word for "will". Forming the simple future tense involves conjugating the chosen infinitive verb with an ending specific to the subject pronoun. There are a several common infinitives which have an irregular stem to which the simple future tense ending must be added.



Music



Make sure you are regularly testing your knowledge using the resources provided by the school on platforms such as Sparx, Educake and Linguascope. You will have been issued with user names and passwords to access your accounts.

Hooks and Riffs

A. Key Words

HOOK – A 'musical hook' is usually the 'catchy bit' of the song that you will remember. It is often short and used and repeated in different places throughout the piece. HOOKS can either be a:

MELODIC HOOK – a HOOK based on the instruments and the singers

RHYTHMIC HOOK – a HOOK based on the patterns in the drums and bass parts or a

VERBAL/LYRICAL HOOK – a HOOK based on the rhyming and/or repeated words of the chorus.

RIFF – A repeated musical pattern often used in the introduction and instrumental breaks in a song or piece of music. RIFFS can be rhythmic, melodic or lyrical, short and repeated.

OSTINATO – A repeated musical pattern. The same meaning as the word RIFF but used when describing repeated musical patterns in "classical" and some "World" music.

BASS LINE – The lowest pitched part of the music often played on bass instruments such as the bass guitar or double bass. RIFFS are often used in BASS LINES.
MELODY – The main "tune" of a song or piece of music, played higher in pitch that the BASS LINE and it may also contain RIFFS or HOOKS. In "Classical Music", the melody line is often performed "with" an OSTINATO pattern below.

Exploring Repeated Musical Patterns





B. Famous Hooks, Riffs and Ostinatos

























PE



Year 9 PE Autumn Knowledge Organiser

Head



Leadership

Qualities of a good sports leader

- Set an example
- Awareness
- Passion 3.
- Enthusiasm 4.
- 5. Ability
- Communication 6.
- 7. Motivational skills
- 8. Visionary





Key Rules

Use the QR codes to look at the rules for the activities you are taking part in this term.

Football

Badminton

Rugby





Gymnastics



Basketball



Respect

It is important to be respectful to others at all times but can be even more important when working with others in PE. To be respectful to others you must;

- Treat others as you wish to be treated
- Follow instructions
- Use equipment properly
- Play fairly
- Accept that everyone is different

Self Motivation

- Stay positive
- Set small targets
- Reward yourself for your achievements
- Remember the why



Consistent skills

Skills are physical movements that are performed during physical activity.

When you participate in physical activity it is important to perform skills **consistently** even when under pressure during competition.

A skill will be consistent when you can;

Repeat the skill over and over again.



- Perform the skill with confidence.
- Perform the skill under control.

Can you name 6 skills for the activity your are completing?

Here are some examples to start you off;

Badminton – serve	Football – short passing
-------------------	--------------------------

Netball – shooting

Rugby – receiving

Gymnastics – forward roll Basketball – dribbling

Can you describe how skills would change during competition?

For example serving in badminton can be short and low or long and high so you can outwit your opponent.







PSHE

BRAIN DUMP

Write, draw a picture, create a mind-map on everything you know about a topic.



Give yourself a time limit, say 3 minutes, then have a look at your books \$ add a few things you forgot.

Year 9 - PSHE - Health and Wellbeing

	<u>Key Terms</u>		Kev Skills		
County Lines	Movement of drugs from cities to rural areas and towns by gangs	PSHE covers a variety of topics that focus developing understanding in four key areas,	 Active listening and communication Team work 		
Screen Addiction	Excessive use of technology, including gaming, social media and the internet	personal, social, nealth and economic.			
Social Media Validation	Approval and acceptance based on social media responses such as 'likes'	Social media companies use your search and viewing history to show you content they	 Negotiation and self advocac Leadership 		
Body Image	A persons feeling about their body and how they think it is perceived by others	think you will enjoy. This is known as a filter bubble.	Presentation and debate		
Body Positive	Thinking and talking in a positive manner about your body	Use of social media can become addictive, manage your screen time carefully and engage in other hobbies.	County lines gangs may		
Pictures and is becoming accessed e	<u>Online Safe</u> posts posted online can contain loco more popular with young people. Lo either through game play or are pure therefore, users do not know who	 People as they are easier to manipulate Carrying a knife in public conversal times a prison sentence Carrying a knife could result in serious injury or death. If you suspect someone needs support or advice please speal 			
Threshold Co	oncepts:				
TC1 That there are fa	actors that contribute to young people joining gangs				
TC2 That there are co	onsequences of carrying weapons and strategies for man				
TC3 That internal and	d external influences can affect decisions which impact or				
TC4 mental health	and social media can impact on how people think about t				
TC5 That internal and	d external influences can affect decisions which impact or	to your student support			
That the media a TC6 mental health	and social media can impact on how people think about t	officer, a trusted adult or			
			cuily visit childline.ury.uk		

RS

FLASHCARDS

Create your own flashcards, question on one side answer on the other. Can you make links between the cards?



You need to repeat the QdA process for flashcards you fail on more frequently & less frequently for those you answer correctly Create a flash card with all the key facts you want to learn (this can be drawn in your book). On the next page try writing down as many facts or as much of the knowledge as you can. If you find you are getting certain facts wrong then these are where you need to focus and relearn.

Year 9 - Religious Studies Knowledge Organiser - Islam

Five Pillars of Islam	Nature of God	<u>Islam</u>	<u>Hajj</u>
 Shahadah Salah Zakat Sawm Hajj Prayer five times a day Face towards Makkah and the Ka'bah Wudu - Ritual cleansing prayers are <u>compulsory</u>. They involve a series of standing up, bowing and prostrating. 	God = Allah 99 Names for Allah which Muslims often learn <u>Sawm</u> • Night of Power - The Prophet Muhammad's (PBUH) first revelation • Ramadan - Islamic holy month • Gates of Hell are closed and the Devil is chained up	 Founder = Prophet Muhammad (PBUH) Symbol = Crescent Moon and Star Place of worship = Mosque Holy writing = Qur'an 2 main sects - Sunni and Shia One of the Abrahamic Religions (along with Christianity and Judaism) Islam = Submission Qu'ran = Recitation 	 Pilgrimage Must do once in a lifetime Ihram = Sacred state, white robes Tawaf = Walking around the Ka'bah seven times Running between the two mounts of Safa and Marwa Praying at Arafat Stoning evil at Mina
Threshold Concepts:			Zakat
 TC1 To understand that religious beliefs are interpre TC2 To understand that religious practices have varyi TC3 To understand that misconceptions exist surroun TC4 To understand that religious values can be accept TC5 To understand the varying impact of modern, often To understand the influence key beliefs, teaching TC6 society and community). TC7 To understand the variety of sources of authorit TC8 To understand the symbolisms found within religion 	 Zakat is the compulsory giving of a set proportion of money Zakat is 2.5% of wealth over a certain limit (Nisab) Sadaqah = any donations or good deeds beyond Zakat 		

Year 9 - Religious Studies Knowledge Organiser - Debate and Controversy

	· · · · · · · · · · · · · · · · · · ·		
Cosmological Argument	Big Bang and Evolution	The Problem of Evil	<u>Euthanasia</u>
 Also known as 'cause' and 'effect' Everything has a cause, only 	 Scientific way of explaining how life came to be on this plant 	 Natural Evil = Suffering beyond people's control, caused by nature Moral Evil = Evil actions deliberately carried out by people Omnipotent = Have unlimited power Omniscient = Know everything Omnibenevolent = unlimited goodness Omnipresent = Everywhere at the same time The existence of evil and suffering is often said to be one of the strongest arguments against the existence of God 	 Euthanasia = The painless killing of a patient suffering from an incurable and painful disease or in an irreversible coma
God could be the cause of us	<u>Humanism</u> Atheist = someone who		Religion and Drug Use
 <u>Design Argument</u> Paley's Watch Argument - if you found a watch in the desert you wouldn't think it was there by accident. Something must have made it. We are so complex that something must have made us - the only being capable of that is God 	does not believe in a God or Gods. Agnostic = someone who is unsure about something (a common term used for someone unsure about God's existence). Theist = a person who does believe God or Gods exists. Humanist = an agnostic / atheist with a moral, scientific worldview.		 A drug is a substance that can be natural or manufactured in a laboratory, which if introduced into the body has an effect on the way the body and mind work Buddhism, Islam and Sikhism forbid the use of illegal drugs for the same reason that they forbid alcohol and tobacco Christianity, Hinduism and Judaism also teach against the use of illegal drugs
Threshold Concepts:			Tuet W/us
TC1 To understand that religious beliefs are interpre	JUST War		
TC2 To understand that religious practices have vary	• Just War = A war that is fought for		
TC3 To understand that misconceptions exist surrour	the right reasons and in the right		
TC4 To understand that religious values can be accep	way		
TC5 To understand the varying impact of modern, oft			
To understand the influence key beliefs, teaching TC6 society and community).	Poverty		
TC7 To understand the variety of sources of authorit			

TC8 To understand the symbolisms found within religion.

Poverty = Being without money, food or other basic needs of life

RSE



Read through your knowledge organiser. Next, cover it up or put it away and try tho write down as many of the key facts that you can remember. Use your knowledge organiser to check the fact you have written down. Correct any you may have got wrong.

Year 9 - RSE - Respectful Relationships

	Key Terms		<u>Key Skills</u>	
Body Shaming	The action of humiliating someone by making comments about their body shape or size	RSE covers a variety of topics and focuses on developing understanding of different aspects of relationships. This includes with yourself friendships romantic and	 Active listening and communication Teamwork Presentation and debate 	
Body Image	A person's perception of their physical self	sexual relationships		
LGBTQIA+	Lesbian, Gay, Bisexual, Transgender, Queer, Intersex, Asexual +	Reproductive Systems	<u>Self Esteem</u> During puberty and teenage years there are many changes. This can	
Equality	The state of being equal	Testicle, Sperm, Testosterone, Prostate	affect how a person feels about themselves.	
Self- Esteem	How we value and perceive ourselves	Biologically Female - Vagina, Vulva, Labia, Clitoris, Uterus, Ovaries, Cervix, Fallopian	It's important to be kind to yourself as go through this process	
		IUDES	Masculinity and Women's Rights	

There are lots of stereotypes about men

physically tough and not show emotions.

Women have traditionally been expected

to be wives and mothers. There are still

differences between men and women in

terms of pay - this is called the 'Gender

Pay Gap'.

and women. Men are expected to be

Threshold Concepts:

That prejudice-based language and behaviour, offline and online, including sexism, homophobia, biphobia, transphobia, racism, ableism and faith-based TC1 prejudice is unacceptable

TC2 That promoting inclusion and challenging discrimination is important

TC3 To know that on any issue there will be a range of viewpoints

TC4 That we are all unique; that recognising and demonstrating personal strengths build self-confidence, self-esteem and good health and wellbeing

TC5 That there are strategies to understand and build resilience, as well as how to respond to disappointments and setbacks

TC6 That there are strategies to manage the physical and mental changes that are a typical part of growing up, including puberty and menstrual wellbeing

Science



Organise your ideas into a concept map, like the one below that summarises 'cells'. In a concept map, you take the main ideas and link them together with phrases that explain the relationship between the concepts. But, always try to make the concept map from memory first! Then check it with the knowledge organiser

Infection and response



Pathogens are microorganisms that cause disease

Communicable and non-communicable disease:

- Communicable, which can be transferred from one person to another, or from one organism to another, eg in humans, these include measles, food poisoning and malaria

- Non-communicable, which are not transferred between people or other organisms

Fighting against disease



Antibiotics vs painkillers

- Antibiotics are substances that slow down or stop the growth of bacteria. - Painkillers are chemicals

that relieve the symptoms Ibut do not kill the

pathogens.

Vaccinations

Vaccines allow a dead or altered I form of the disease causing pathogen to be introduced into the 🔳 body, which contain a specific antigen.

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Keywords

- Pathogens: A microorganism that causes disease e.g. bacteria, virus, protist, fungus. Microorganism: Are so small they can only be seen using a microscope.
- Virus: A disease causing agent about 1/100th of the size of a bacterial cell. Can only replicate within host body cell/
- Bacteria: A single celled microorganism without a true nucleus, some cause disease.
- Fungi: A microorganism that can cause disease, and that produces spores that can spread to other organisms.



Required practical



Petridish Control paper disc - no antibiotic Paper disc soak in antibiotic .

Bacteria growin Inhibition zon

No bacteria



Equations for this topic



HOUSATE AT 25%



CAREFULLY PLACE PAREA DISC ON ONE OF THE DOTS, ENGLISH THE UD IS LIFTED AWAY FROM



6

Electricity (Part 1)



Electricity Part 2

Threshold Concept

Potential Difference is the push that causes current to flow.

Alternating and Direct current (ACDC)



Alternating Current (AC) The direction of the current is always switched periodically, and the voltage is also switched.

Electricity can flow either as direct or alternating current, and is used in homes to power electrical appliances.



Resistance

Resistance (R) is a measure of how difficult it is for current to flow. Resistance is measured in units called ohms (Ω) .

The more resistance there is in a circuit, the less current will flow.



Ohm's Law

Ohm's law states that current is directly proportional to potential difference (providing the temperature remains constant).



Keywords

- Energy transfer: the change of energy from one form to another.
- Current: Current is the rate of flow of electric charge around a circuit.
- Resistance: is a measure of the opposition to current flow in an electrical circuit.
- Potential difference (voltage): is the difference in the amount of energy that charge carriers have between two points in a circuit.

Required Practical's Resistance Use circuit diagrams to set up and check appropriate circuits to investigate the factors affecting the <u>resistance</u> of electrical circuits. This should include: A - the length of a wire Broomstant temperature B - combinations of resistors inverties and parallel Required practical Physics 3 Combined Science 15 Resistance in circuits Battery or power supply Connecting Independent variable Dependent variable

Possible sources of significant error (which you can attempt to control):

Record in a table: • length of the wire between the crocodile clips

the readings on the ammeter
 the readings on the voltmeter
 the readings on the voltmeter
 Move the recordle clip and record the new ammeter and voltmeter readings. Note that the voltmeter reading may

Note the understanding. Note that the voltmeter reading may not change. Repeat this to obtain several pairs of meter readings for different lengths of wire Calculate and record the resistance for each length of wire using the equation R = V/I

resistance

in ohms O

current

in amps A

Method A steps

Connect the circuit as shown

inaccurate attachment of crocodile clips; heating effect of electric current; misreading metre rule; misreading ammeter or voltmeter. (A) V ammeter voltmeter tetre rule Wire you are testing Crocodile clip connected to circuit (which moves along) Crocodile clip connected to

I-V characteristics

current in

amps, A

time, s

second



Bonding Part 1

Threshold Concept

How do 100 elements make up everything in the universe?

Forming ions

An ion is an charged particle.

Atoms will lose or gain electrons to get a full outer shell.

The **metal** atom **loses electrons** to become a **positive** ion

The **non-metal** atom **gains electrons** to become a **negative** ion.





Use task 3-5

<u>Ionic compounds and properties</u>

Positive and negative ions join together to form a giant ionic lattice





Ionic compounds <u>don't</u> conduct when <u>solid</u> because the ions are locked in position. When molten or dissolved the ions are free to move and can conduct

Keywords

Electron - a subatomic particle with a negative charge

Electrostatic attraction - strong attraction between oppositely charged ions Weak intermolecular forces - force of attraction between atoms, elements and molecules Delocalised electron - free moving electron that isn't a part of any atom Ion – a charged particle

Ionic bonds

Ionic bonds are formed between metals and non-metals. Metals **lose** electrons and **nonmetals** gain electrons. The oppositely charged ions attract one another forming an ionic bond.





History of the atom

JJ Thomson – Suggested the <u>plum pudding model</u>. Atoms were a ball of positive charge with negative particles scattered within.

Ernest Rutherford – Alpha scattering experiment. Found that atoms has a very small, positive nucleus and the majority of atoms are empty space.







Bonding Part 2

Threshold Concept

How do 100 elements make up everything in the universe?

Covalent bonds

Two non-metals will form a covalent bond. The atoms share electrons to make themselves stable.





Giant Covalent Structures





Keywords

Electron - a subatomic particle with a negative charge

Electrostatic attraction - strong attraction between oppositely charged ions Weak intermolecular forces - force of attraction between atoms, elements and molecules Delocalised electron - free moving electron that isn't a part of any atom Ion – a charged particle

Simple Covalent compounds

Simple covalent compounds have strong covalent bonds between atoms and weak intermolecular forces between molecules.

Properties - low m.p and b.p - cannot conduct electricity

OLECULAR FORCES

Metallic bonding

Metals consist of a giant metallic structure. They are positive metal ions surrounded by a sea of delocalised electrons





Alloys

Alloys are a mixture of metals and another element.

Alloys are stronger than metals as the different sized atoms distort the layers



