Knowledge Organiser

Autumn Term – Year 10



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2D MEDIA – MAN MADE OBJECTS | YEAR 10 | ART | TERM 1

	KEYWORDS				ARTIST INSPIRATION
Proportion	The size of one thing compared to the size of another	P	op Art	of the main	ent based on popular culture, often seeking its inspiration in everyday objects. One goals of Pop Art making art accessible to masses. It utilised printing processes to mass produce art.
Centre Line	A line of symmetry can help you draw objects that are the same on both sides		ael Craig- Iartin		eatures of Pop art are bright colours with minimal tone and often strong lines. Iter known for his elaborate line paintings of ordinary objects using bold colours.
Line drawing	Drawing made with lines only	Jir	n Dyne	An America	n artist who has produced an extensive body of work based on tools. He considers tool fascinating extension of his hands.
Line dramig					PROCESSES
Shading	Adding different tones to create 3D effect	1	Stencil		A shape used to create a cut out design
Composition	he arrangement of different	2	Pen wash	A techn	ique that combines line drawing with shadows added with diluted ink or watercolour
	parts of an art piece	3	Digital Art		Art created using software, computer or other electronic devices
Pattern	A symbol or shape that is repeated	4	Photoshop		Industry standard image editing software
Line	A mark which can be used to	5	Watercolour wash		Layer of transparent colour applied over a large area using diluted paint.
Line	make a drawing	6	Wet on wet		Process involving the application of wet paint to a wet surface
Shape	A 2D area that is enclosed by a	7	Wet on Dry		Process involving wet paint application to dry surface
		8	Experimental	l Proce	ess that involves pushing the boundaries of media and involves a level of chance.
Tone/value	The lightness or darkness of something	9	Print		Art process that involves transfer of art media from one surface to another.
F a	Something that has 3	10	Monoprint		A printing method that results in a single print
Form	dimensions	AO	DESCR	IPTION	INCLUDES
Texture	How something feels or looks		Aution Dee		Research on general ideas/ topic theme you might be exploring
Pattern	A symbol or shape that is repeated	1	Artist Reserved responding		Research on camera techniques Research on techniques for specific art media
Colour	What we see when light reflects off something.	2	ldea develo d use of		Your experiments in variety of media Design sketches, collages, digital designs etc
Negative Space	Space around and in between subject matter	3	Recording rir		First-hand observations: Photos you take, observational drawings, written comments and observations. Second-hand observations: Photos and information from the internet or books
Photogram	A photographic image produced without a camera.	4	Final Ou	itcomes	Final outcomes from each section and outcomes for whole project

Y10 | BUSINESS | Dynamic Nature of Business & Risk & Reward

Key Terms

BUSINESS: Creating informed, discerning employees, consumers and future leaders

Business – an organisation that seeks to satisfy the needs and wants and wants of consumers through the production of goods and services

Dynamic – continual change

<u>Consumer</u> – the end user of the product or service

<u>**Obsolete**</u> – outdated; a product that has declining sales or come to an end

<u>Entrepreneur</u> – an individual who comes up with a business idea and is willing to take a risk to develop it.

<u>**Risk</u>** – something bad / negative that could happen</u>

Reward - something good / a positive effect

Financial - related to money

Non-financial – non-money related

<u>**Profit</u>** – what a business has left from its income after paying all of its costs</u>

Core Knowledge

<u>Marketing</u> – the product life cycle states that all products eventually need to be removed from sale

Technology – changes in technology have led to obsolete products and changes in consumer tastes

<u>Role of enterprise</u> – entrepreneurs are the individuals who develop new ideas

 $\underline{\textbf{Ownership}} - \text{different types of ownership have different levels of risk for the owner}$

 $\underline{\textbf{Customer needs}} - \text{knowing what these are helps to} \\ \text{reduce risk}$

Wider Business World

Apple – great example of business that continually adapts products

Iceland – changed from frozen only foods to non-frozen and non-food goods because this is what consumers want when they shop

Thomas Cook, BHS – businesses that have failed.due to the internet & changes in shopping habits

Richard Branson – an entrepreneur worth billions, but he still takes risks when starting new ventures. Why would this be?

Core Knowledge

The world changes constantly, and therefore so do consumer needs, and so businesses must therefore be dynamic to respond to these changes, or they risk failure.

Business ideas come about because of:

- Changes in technology
- Changes in what consumers want

Business ideas come about because:

- An entrepreneur has a completely original idea this is invention
- Adapting an existing idea this is innovation

Adaptations to products can be:

- New flavours
- Different colours / pack sizes

Starting and running a business are risky

activities. A large percentage of start-up businesses fail in the first five years.

Risks are things that can go wrong

- Business failure
- Financial loss
- Lack of security due to not having a regular income

Business can fail because:

- An entrepreneur does not know the market well
- Not having enough capital to start the business
- Poor decision making
- Competition from other businesses
- Not meeting the needs of customers

Rewards are what can be achieved through business success. These include:

- Profit
- Personal independence

Key Terms

Customer reviews – feedback from customers, which can be online Word of mouth – when a customer tells another person about a business Repeat purchase – when a customer returns to the same business Market research – this is how a business finds out customer needs Market segmentation – how we divide up customers into smaller groups with similar needs

Added value – meeting customer needs can allow a business to charge higher prices, i.e. add value to a product Market research – the process of gathering, processing and interpreting information about consumers' behaviour Secondary research – using research that has already been carried out for

another purpose

<u>**Primary research**</u> – collecting new information

<u>Qualitative data</u> – research into opinions and views

<u>Quantitative data</u> – data that is numerical <u>Focus group</u> – a small number of consumers who have a discussion

<u>Market trends</u> – an overall pattern related to products

<u>Market gap</u> – where demand is not being met by the existing products available <u>Bias</u> – a one-sided view

<u>Sample-size</u> – the number of consumers that are involved in market research

Links

Price that reflects the quality of the product, and is low enough to match consumer incomes **Quality** – usually more important for those with higher income levels

<u>Choice</u> – consumers like to select from a range of options, e.g. different flavours, colours or packet sizes

<u>Convenience</u> – making life easier for customers <u>Efficient and reliable service</u> – such as having enough stock, or longevity of a product <u>Design</u> – how good a product looks <u>Market segmentation</u> – how we divide up customers into smaller groups with similar needs <u>Customer needs</u> – market research aims to find out what these are, if they are being met, and what else is wanted

<u>**Risk and reward**</u> – market research can reduce the risk

Business Examples

Aldi & Lidl versus Tesco – meet different need through the price level and choice available

Banks – a variety of ways to access your funds is convenience

Takeaways – offer convenience so we pay more

Innocent Smoothies – conducted initial market research at a festival using two bins – Yes or No to launching their business

Survey monkey – a free online survey platform making it easier to conduct research

Core Knowledge

<u>**Customer needs**</u> are the specific wants or needs that buyers have when purchasing goods

Different customers have different needs

If a business knows and understands its customers' needs it is in a better position to produce the products that customers want, in the way that they want them, leading to increasing sales, and so contributing to long term survival

Customer needs are:**Price, Quality, Choice, Convenience** Efficient, Reliable service and Design

The purpose of market research is:

- To identify and understand customer needs
- Identify market gaps
- Reduce risk
- Inform business decisions

Methods of research are:

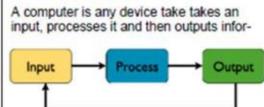
- **Primary** collecting brand new data to meet the specific needs of the business
- Secondary using research that has already been gathered

Social media has made it easier to collect data using comments, reviews, surveys, and online focus groups

Trends can be identified from tracking hashtags

Year 10 | Computer Science | Hardware





Input Devices

An input device is a piece of hardware that can be used to enter data into a computer



Output Devices

An output device is a piece of hardware that can be used to represent information in a variety of ways



Fetch, Decode, Execute

The main function of the CPU is to run an endless fetch-execute cycle.



The speed of the FDE cycle is measured in cycles per second (hertz). This is known as the clock speed.

Processors are usually measured in gigahertz (GHz)

1GHz = 1 billion instructions processed.

Key terminology

Term	Definition
Central processing unit (CPU)	The main component in a computer for processing data and instructions.
Control unit (CU)	Directs the flow of instructions and/or data and coordinates the other parts of the CPU. It generates clock ticks.
Arithmetic logic unit (ALU)	The ALU performs all the mathematical calculations / logical operations in the CPU.
Cache	Incredibly fast, but very expensive volatile memory used by the CPU.
Registers	Fast access storage locations found on the CPU where data or control information is temporarily stored.
Program counter (PC)	A counter that keeps track of the memory address of the instruction to be executed next.
Current instruction register (CIR)	A temporary holding area for the instruction that has just been fetched from memory.
Accumulator (ACC)	A register for temporary storage of arithmetic and logic data in the CPU.
Memory address register (MAR)	Stores the address in the main memory that is currently being read or written.
Memory data register (MDR)	Stores the data in the main memory that is currently being read or written.
Memory	Used for the temporary storage of currently running programs and data.
Clock speed	The number of FDE cycles that a CPU can carry out per second.
Cores	Some processors have multiple processors (cores) which can work in parallel, sequentially or can multitask.

Components

Computer components are all the different internal parts of a computer system that help it to operate. Each component has its own purpose and functions.

Central Processing Unit

The CPU is the brain of the computer. It does all the processing and calculating for the computer.

Heat sink

A heat sink is used to draw heat away from important components such as the CPU that can get quite hot. If a component gets too hot then it won't be able to perform its job as well.

Motherboard

The motherboard is what connects all the other components. It helps keep them secure and allows the components to communicate.

Power Supply

A power supply helps to convert electricity to a suitable voltage to power the computer safely.

Hard Drive

A Hard Drive is where all the computers long term data is stored i.e. data you want to keep for in the future, such as your own documents, music, films and games.

Random Access Memory

RAM is where temporary data is stored while the computer is currently being used. Once a computer is switched off this data is lost

Network Interface Card

A network interface card (NIC) enables a computer system to connect to a network. Some allow access wirelessly.













Year 10 | Computer Science | Python Programming

	fear 10 Computer Science Python Programming						
Programming Constructs	Dat	ta Types	Li	st Methods			
Start program Complete action 1 Complete action 2	String - str()	"A sequence of characters inside quotation marks usually words or sentences."	MyList.append(x) MyList.pop(index) len(myList)	Adds x to the end of the list Removes the item at the index Returns the list length			
End program	Character – char()	Single character inside quotation marks: "A"	x in myList	Checks if x is in the list			
Start program	Integer – int()	Whole numbers: 7	.insert(x, index)	Inserts x at the index			
IF condition is TRUE:	Float — float()	Decimal numbers: 7.5		Variables			
Complete action 1 ELSE: Complete action 2	Boolean – bool()	Can only be: TRUE or FALSE	Variables are used to store some data that we can use later in our code. Remember to:				
End program	Logical	Operators	 Use a descriptive name. No spaces in the name. Use one equals sign to store something in it. 				
<u>Iteration</u> For loop	Less than	5 < 10					
Start program	More than	10 > 5	Call it by name to reuse it				
FOR x number of times:	Equal to	5 == (2+3)	age = 50 name = "Bob" print(name, " is ", age, " years old")				
Complete action 1 Complete action 2	Less than OR equal to	5 <= 10					
End program	NOT equal to	5 != 10					
While loop	Data	Structures	Inputs and Outputs				
Start program WHILE condition is TRUE: Complete action 1 Complete action 2 End program	than one value. Lists o data types. Arrays ha	e variables that store more change in size and store any ve a fixed size, and all data the same type	We show information <u>to</u> the user with the keyword pri print("This is a message ") print(5 + 5)				
	myList = [5,	"B". 1.6. "Hello"]	We get information fro	m the user with the keyword			

myList = [5, "B", 1.6, "Hello"]

myArray = [5, 33, 100, 3]

input. Here the user is asked to enter their name,

whatever they type in as an input is stored in the

myName = input("What is your name?")

ariable myName.

Zero i<u>ndex</u>

Lists have a place order starting at 0

.15 t	Shaved	a place	uluer si	arting c	ιυ
	Index	0	1	2	
	Value	3	"A"	8.7	

Design & Technology

| Year 10 |

	Mat	erial Properties		Terms	elated to Stakeholder		Man	ufacturing Considerations
1	Absorbency	The ability of a material to absorb light, heat or moisture	1 2	Primary Stakeholder Wider	The main person or user group a product is designed for The wiser audience who have an	1 2	Economies of Scale One-off/	A saving in cost per product gained by making a higher number of products. Making a single product to a customer
2	Corrosion resistance	The ability of a material not to be damaged by its		Stakeholder	invested interest in the product being developed – manufacturers, retailer – online or shops,	3	Bespoke Production Batch	specification. Making a series of groups of identical
		environment			charities, councils, clubs or fan	5	Production	products.
3	Density	Mass of a material per unit volume.	2	Anthropometric	groups, etc. Measurements taken from many	4	Mass Production	Making the same product on a large scale.
4	Durability	The ability of a material to last a long time without	2	Data	different people and many different limbs or body areas. Collated in age groups and 5 th , 50 th	5	Just-in-Time Manufacturing/ JiT	Manufacturing system where items from suppliers are delivered only when they are needed.
		being damaged.			and 95 th percentiles.	6	Lean Manufacturing	A systematic approach to eliminate all forms of waste in manufacturing.
5	Elasticity	The ability of a material to return to its original shape when a force on it is removed.	3	Ergonomic Data	Measurements of the environment a product will interact with, ensuring the product is fit for purpose.	7	Rapid Prototyping	An additive manufacturing technology, such as 3D printing, used to produce a 3D product in a single operation from a CAD model.
6	Hardness	The resistance of a	4	4 Ethical Design	Designing with regard to people's principals, beliefs and morals.	8	Jig	A custom-made tool designed to achieve
		material to wear and abrasion.	5	End User	The person or people that will use a product when it is completed.			accuracy, repeatability and interchangeability during product manufacture.
7	Malleable	Pliable, the ability of a	6	Exclusive design	Design of products for a limited audience.	9	Pattern	A type of template that is used to trace
		material to be pressed or forced into shape without	7	Inclusive design	Design of products that can be used by everyone without special			the shape of parts of a garment onto fabric before it is cut.
		breaking.			adaptations.	1	Standard Components	Common parts that are commercially available in specific sizes. E.g nuts and
8	Plasticity	The ability of a material to be shaped or moulded.	8	Product Analysis	Analysing existing products to gain useful information and	0	components	bolts, rivets, hinges, etc
9	Stiffness	How rigid an object is.			opportunities for your own designs	1 1	Template	Used to draw a shape on material which can then be cut around.
1	Strength	The ability of a material to	9	User Centred	A design approach where the	1	Tolerance	The permissible limits of variation in the
0		withstand a force that is applied to it.		Design	needs and wants of the end user are considered extensively at each	2		dimensions or physical properties of a manufactured product or part.
1 1	Toughness	The ability of a material to absorb an impact without	1	Viability	stage of the design process. When a product is not only purchased initially but performs	1 3	Circular Economy	A model that aims to increase the use of renewable energy and design products that are 'made to be made again'.
1		rupturing.	0		well enough for it to be recommended to others, and for	1	Lifecycle Assessment/LCA	A tool for systematically evaluating the environmental impact of a product at all
					sales to continue.	4		stages of it's life.

Characters		
Inspector	Priestley's mouthpiece; advocates social justice	Ľ
Mr Birling	Businessman, capitalist, against social equality	
Mrs Birling	Husband's social superior, believes in personal responsibility	ť
Sheila	Young girl, comes to change views and pities Eva, feels regret	
Eric	Young man, drinks too much, rapes Eva, regrets actions	
Gerald	Businessman, engaged to Sheila, politically closest to Birling	4
Eva	Unseen in play, comes to stand for victims of social injustice	4
Key quotes		4
Birling's confidence	'We're in for a time of steadily increasing prosperity']
Birling on society	'the way some of these cranks talk and write now, you'd think everybody has to look after everybody else'	
Sheila's recognition	'but these girls aren't cheap labour – they're people'	┢
Sheila's regret	'it's the only time I've ever done anything like that, and I'll never, never do it again to anybody'	
Sheila on the Inspector	'we all started like that – so confident, so pleased with ourselves until he began asking us questions'	
Sheila on Eric	'he's been steadily drinking too much for the last two years'	
Inspector on guilt	'I think you did something terribly wrong – and that you're going to spend the rest of your life regretting it'	
Mrs Birling defends herself	'she was claiming elaborate fine feelings and scruples that were simply absurd in a girl in her position'	-
Eric explains	'I'm not very clear about it, but afterwards she told me she didn't want me to go in but that – well, I was in that state when a chap	-
	easily turns nasty – and I threatened to make a row'	- '
The Inspector says	'but each of you helped to kill her. Remember that'	-
Inspector's message	'there are millions and millions and millions of Eva Smiths and John Smiths still left with us, with their lives, their hopes and fears, their suffering, and chance of happiness, all intertwined	-
	with our lives, with what we think and say and do. We don't live alone.'	
Birling's confidence	'the famous younger generation who know it all']

Plot						
Act 1	Sheila and Gera	ld's engagement is celebrated				
Act 1	Birling says the	e will be no war; references Titanic				
Act 1	Inspector arrive	s; a young girl has committed suicide				
Act 1	Birling threw he	er out after strike; Sheila had her fired for laughing				
Act 2	Gerald had an a	ffair with Daisy Renton				
Act 2	Mrs Birling refu	sed to give charity to Eva; blames father				
Act 3	Eric's involveme	ent revealed; possible rape hinted at				
Act 3	Inspector leaves	s. Gerald returns; met policeman, no Inspector G				
Act 3	Telephone ring	s; an inspector is coming				
Theatrical S	Stagecraft: Dra	amatic Devices				
1. Dramatic irony		the audience knows what the characters don't				
2. Stage directions		Instructions for the actors; often revealing				
3. Setting		Constant throughout but subtle changes e.g. lighting				
4. Tension		Builds up throughout the play				
5. Cliff-hang	er	The ending allows the audience to make up their minds				
Key concep	ots and contex	t				
1912		Play is set here; just before WWI and sinking of the Titanic				
1945		Priestley wrote the play then; start of the welfare state and ideals of social equality made real				
Social responsibility		Or socialism; we must all look after each other				
Capitalism		Business should make money no matter the human cost; we are all responsible only for ourselves				
Class		Upper and lower social classes are segregated				
Age		Old vs young; new and old ideas counterposed				
Attitudes to w	vomen	Patriarchal leading to misogyny				

Year 11- An Inspector Calls

Language Paper 1 – Knowledge Organiser

	Section A - Reading	Q4 –	Example Question: A reader said: 'This part of	Structure Strip – Sentence Stems
15 Mins	 As you read the extract, underline and annotate any words or phrases that spark an idea What is the writer writing about? How has the writer presented their ideas? Why has the writer explored this in the text? Ensure that you have come up with 10-15 words when you do this. 	20 mins	 the story, where Alice decided to continue digging for the object is very mysterious' To what extent do you agree? [20 marks] •Focused on a section of the text and it is asking you to evaluate 	 Q1. List four details. Q2. LANGUAGE FOCUS The author's employment of [method] in: "XXXXXXX" cleverly conveys an impression to the reader that The use of [method] by the author in: "XXXXXXXX" subtly evokes an idea to
Q 1 – 5 mins	 Example Question: List four things from this part of the text about the coach and the horses [4 marks] This will always focus on a small section of the text. Identify four things you can list. Look for the literal (what it literally says). Be careful 		 Decide whether you agree, partially agree or disagree with the statement – you can focus on part of it. Come up with 3-4 big ideas –WHAT, and focus on HOW and WHY to support your opinion. Section B – Writing – 45 mins 	 the reader that Write using the What/How/Why method of analysis; Methods – Words/phrases; metaphor; symbolism; simile; verbs; adjectives and sentence forms Q3: STRUCTURE FOCUS
Q2 – 10 mins Q3 –	not to be tricked! Example Question: How does the writer use language to describe the storm [8 marks] • This question wants you to analyse LANGUAGE. • This question will ask you to analyse specific lines. • Analyse WHAT, HOW, WHY. • Link directly back to focus on the question. • Try and think what big idea is the writer exploring so you can start with an overview. Example Question: How is the text structured to	 sugges imagin Ensur clear p You s throug If you bigger Use to achieved 	hould have a clear narrative voice and mood	 The author first focuses the reader's attention on The <i>focus then shifts</i> The <i>narrative focus narrows</i> (or <i>widens</i>) on <i>Dialogue</i> is used to (advance the plot? Revelatory detail?) The <i>climax</i> of the <i>episode</i> is Structure - Beginning, Middle, End, Shifts, Patterns Flashbacks/forwards; interior monologue; tension escalates Q4: EVALUATE METHODS The author uses a variety of methods
10 mins	 interest you as a reader? [8 marks] This question wants you to analyse STRUCTURE. This will be analysing the whole text. Analyse how the writer has structured the text – beginning, middle and end. Use the 3ws – WHAT is it, WHERE is it and WHY is it there. Analyse any other structural features. 	 arour Your connect You s to the You s You s Leave 	nd 2 to 2.5 pages. writing should be well structured and your ideas cted together. hould use a range of sentence structures to add mood/effect you are trying to achieve. hould use a range of vocabulary. e time at the end to proof reading and check york, particularly your SPAG – remember editing	 to [link to focus of the question] Use evaluative adverbs when explaining effects of methods: skilfully; cleverly; subtly; powerfully; deliberately; effectively. Write using the What/How/Why method of analysis; Methods – Words/phrases; metaphor; symbolism; simile; verbs; adjectives and sentence forms

	Language Paper 1 – Knowledge Organiser							
Key Images - Skills	Key Vocabulary and Subject Terminology	<u>Anaphora –</u> a repetition of sentence openers or a repetition of the beginning of successive	Foreshadowing - Warning or hint towards a future event					
	Evaluate - To judge or assess what your opinion is based on the evidence.	clauses (parts of the sentence separated by commas).	<u>Cyclical –</u> The text has a circular pattern (there are connections between the					
	<u>Narrative Voice</u> The perspective a story is told from.	Epiphora/Epistrophe – the repetition of a word or phrasing at the end of successive	beginning and the end)					
<u>Q1 – Listing</u>	Describe – to say or write what someone or	clauses or sentences.	Tension - a feeling of nervousness before an important or difficult event.					
	something is like. <u>Connotations –</u> a feeling or idea that is suggested by a particular word or phrase.	<u>Metaphor –</u> this describes a person or object by linking it to something that is thought to have similar qualities to that person or object.	<u>Shift –</u> to move or change from one focus in the text to another.					
Q2 -Language	<u>Protagonist</u> – one of the main characters in a story or a play.	Extended Metaphor – a metaphor that is repeated across the text.	Interior monologue – is where the text describes the thoughts passing through the minds of the characters.					
Analysis	Concrete Noun – A noun (person , class of people, place, thing or name) that can be identified through one of the senses (touch, taste, smell, hearing and sight). Abstract Noun – A noun that you cannot perceive through one of the five sense. Things like ideas, states of mind and emotions are	Imperative verb – a type of verb that is used to give orders.	<u>Climax – the most important or exciting point</u> in story or situation, especially when this					
		Motif – is a repeated theme, image, idea or character in a text because it stands	happens near the end.					
<u>Q3 – Structural</u> <u>Analysis</u>		for/symbolises something. <u>Personification –</u> giving a human quality or feature to something which not human.	Exposition – are the passages/part of the text, which explains where events take place, what happened before the story begins and the background or the characters.					
	examples of abstract nouns. <u>Symbolism</u> -the use of symbols to represent/mean an idea.	<u>Simile –</u> where you compare one thing with another, always including the words 'as' or 'like'.	<u>Cliffhanger –</u> a story that is exciting because its ending is uncertain.					
Q4 – Evaluation	<u>Mood</u> – the emotional features of the text or the way the writer intends you to feel	<u>Semantic Field –</u> are a group of words which are linked to one another because they have	Evaluative Verbs <u>Reflects–</u> shows a similar idea/theme.					
	Oxymoron – two words used together that have, or seem to have, opposite meanings.	similar meanings or similar themes/abstracts. Juxtaposition – putting things close together	Indicates – shows or points to something in a clear way.					
	Hyperbole - a way of speaking or writing that makes someone or something sound bigger,	to create a contrasting effect) showing their differences.	Emphasises – draws attention to something.					
<u>Q5 – Creative</u> <u>Writing</u>	better, more, etc, than they are (exaggeration).	<u>Chronological –</u> following the order in which a series of events happened.	<u>Connotes</u> – creates a deeper metaphorical or symbolic meaning.					

Food, Nutrition and Health | Year 10 | Food Preparation and Nutrition | Autumn Term

KEYWORDS	PROTEIN		
Macronutrients: A type of food (e.g. fat, protein, carbohydrate) required in	Made up of building blocks called amino acids.		
large amounts in the diet.	There are 20 amino acids found in protein.		
Carbohydrates: Macronutrients required by all animals; made in plants by the process of photosynthesis.	Eight amino acids must be provided by the diet (called essential amino acids). The essential amino acids (EAAs) are isoleucine, leucine, lysine, methionine, phenylalanine, threonine,		
Protein: A macronutrient that is essential to building muscle mass.	tryptophan and valine.		
Amino Acid: The building blocks of proteins	In young children, additional amino acids, e.g., histidine and tyrosine, are sometimes		
Essential amino acids : 8 of the different amino acids found in proteins from plants and animals that have to be provided by the diet	considered to be essential (or 'conditionally essential') because they may be unable to make enough to meet their needs.		
Protein complementation: Combining different protein types at the same meal	0.75g/kg bodyweight/day in adults.		
to ensure all EAAs are ingested	Animal sources: meat; poultry; fish; eggs; milk; dairy food.		
Fat: Macronutrient which supplies the body with energy.	Plant sources: soya; nuts; seeds; pulses, e.g., beans, lentils; mycoprotein.		

CARBOHYDRATES	DIETARY FIBRE	FAT			
All types of carbohydrate are compounds of carbon, hydrogen and oxygen.	Dietary fibre is also a type of carbohydrate.	Sources of fat include saturated fat; monounsaturated fat; polyunsaturated fat.			
They can be divided into three main groups according to the size of the molecule.	Fibre is a term used for plant- based carbohydrates that are not digested in the small intestine (30g/day	Fats can be saturated, when they have no double bonds, monounsaturated, when they have one double bond, or polyunsaturated, when they have more than one double bond.			
These three types are: •monosaccharides (e.g., glucose);	for adults).				
•disaccharides (e.g., lactose);	Food examples include wholegrain	<35% energy, Saturated fat <11% energy. A high saturated fat intake is linked with high blood cholesterol levels.			
•polysaccharide (e.g., sucrose).	cereals and cereal products; oats; beans;	Saturated fat: fatty cuts of meat; skin of poultry; butter; hard cheese;			
The two types main of carbohydrate that provide dietary	lentils; fruit; vegetables; nuts; and seeds.	biscuits, cakes and pastries; chocolate.			
energy are starch and sugars.	Dietary fibre helps bulk up stools and	Monounsaturated fat: edible oils especially olive oil; avocados; nuts.			
Starchy carbohydrate is an important source of energy.	improves gut health.				
Starchy foods - we should be choosing wholegrain versions of starchy foods where possible.	Dietary fibre helps reduce the risk of heart disease.	Polyunsaturated fatty acids: edible oils especially sunflower oil; seeds; margarine; spreadable fats made from vegetable oils and oily fish.			
Total carbohydrate - around 50% of daily food energy.	Dietary fibre helps disease, diabetes and some cancers.	The Eatwell Guide shows how much of what we eat			
Free sugars include all sugars added to foods plus sugars naturally present in honey, syrups and unsweetened fruit	Dietary fibre helps help weight control	overall should come from each food group to achieve a healthy, balanced diet.			
juice (<5% daily food energy).	Dietary fibre helps prevent constipation.				

YEAR 10 | FRENCH | MODULE 1

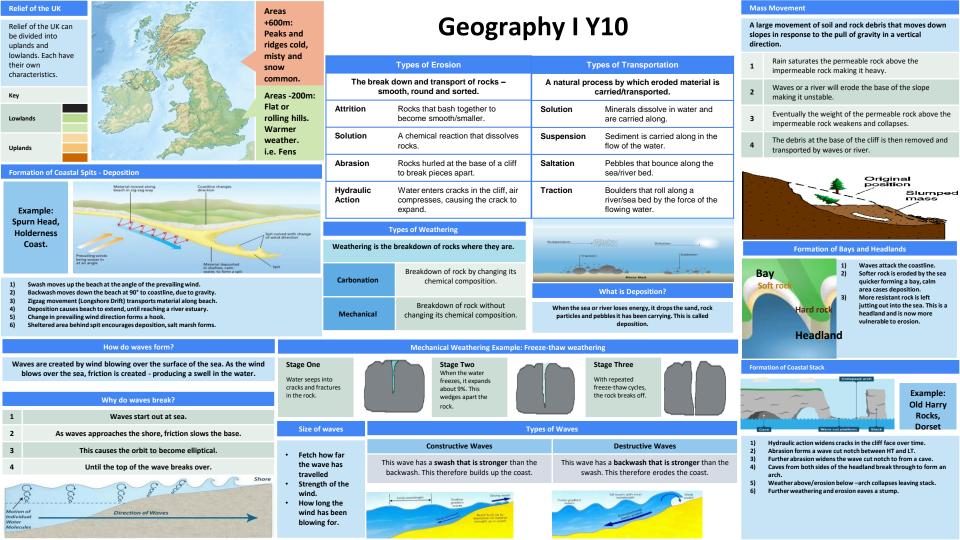
SENTENCE BUILDER 1

1.1 Qu'est-ce que tu fais en	ligne? What do you do online?							
Present tense verbs (regular)	Nouns		Extra detail			Verb + Time phrase		
J'écoute I listen Je télécharge I download	du rap <i>to rap</i> de la musique <i>to music</i> des chansons <i>to songs</i>		avec mes écouteurs on my headphones			je fais ça <i>I do that (it)</i> souvent		
Je regarde <i>I watch</i> Je partage <i>I share</i> Je parle <i>I talk</i>	des clips sur TikTok des clips des chaînes YouTube YouTube channels des photos des selfies		avec mon ami with my friend			often parfois sometimes tout le temps all the time tous les jours every day		
/envoie I send			à mes copains et copines <i>to my friends</i>			tous les soirs every evening tous les week-ends every weekend de temps en temps from time to time		
J'achète <i>I buy</i>	des vêtements <i>clothes</i>		en ligne <i>online</i> sur Vinted <i>on Vinted</i>					
Je joue I play	à des jeux vidéo video games à des jeux en ligne online games		sur ma console on my console sur ma tablette on my tablet sur mon portable on my phone sur mon ordinateur on my computer					
Je cherche I look for	des idées <i>ideas</i> des informations		sur Internet on the internet					
Je passe I spend	des informations beaucoup de temps <i>a lot of time</i> trop de temps too much time		devant un écran <i>in front of a screen</i> devant un appareil <i>in front of a device</i> sur des réseaux sociaux <i>on social media</i>					
Est-ce que tu es pour ou contre Internet	Are you for or against the internet?							
À mon avis, Internet, c'est In my opinion, the internet is très very vraiment really trop too	amusant fun formidable terrific génial great hyper-cool ultra-cool super super affreux auful dangereux dangerous ennuyeux boring inquiétant worrying nul rubbish mauvais pour la santé bad for your health	car because parce qu' because puisqu' since mais but cependant pourtant however toutefois (and) yet malgré cela in spite of	that	il y a there is/are	apps des dangers dangers des risques de sécurité/cybercriminalité security/ cybercrime risks des risques d'harcèlement bullying risks des vols d'identité/de données		pour tout for everything pour la musique for music pour les jeux for games pour les achats for shopping surtout pour la jeunesse especially for young people	

YEAR 10 | FRENCH | MODULE 1

SENTENCE BUILDER 2

1.2 Tu a	s une vie active? Do you have an active life?				
Time phrase	Present tense verbs	Extra detail	Verb	Time phrases	
	je joue <i>I play</i> nous jouons <i>we play</i>	au basket basketball au foot(ball) football au rugby rugby du piano the piano du violon the violin de la guitare the guitar de la flûte the flute	dans l'équipe du co in the school team dans un groupe de in a music group	-	
D'habitude	je lis <i>I read</i> nous lisons <i>we read</i>	un (bon) livre <i>a good book</i>	chez moi at home au collège at schoo à la bibliothèque a aux jardins publiqu at the park (public	t the library les	
Usually	Present tense verbs (irregular)				
Parfois <i>Sometimes</i> Souvent	je fais I <i>do/make</i> nous faisons <i>we do/make</i> je ne fais pas de/d' (du/de la/des/ un/une)	du sport <i>sport</i> du vélo <i>cycling</i> de l'athlétisme <i>athletics</i> de la cuisine <i>cooking</i>	du vélo cycling de l'athlétisme athletics		
Often Normalement	<i>I don't do/make</i> je ne fais jamais de/d' (du/de la/des/ un/une)	de la danse <i>dancing</i> de la natation <i>swimming</i> une promenade <i>a walk</i>		avec ma meilleure amie with my best friend	
Normally	I never do/make	un effort an effort		avec mes copains / copines with my friends	
Le soir <i>In the evenings</i> Le samedi <i>On Saturdays</i>	je vais <i>I go</i> nous allons <i>we go</i>	au centre sportif to the sports centre au théâtre to the theatre au cinema to the cinema au gymnase to the gym à un concert to a concert à la piscine to the swimming pool à la plage to the beach	au centre sportif to the sports centre au théâtre to the theatre au cinema to the cinema au gymnase to the gym à un concert to a concert à la piscine to the swimming pool		
	j'ai <i>l have</i> nous avons <i>we have</i>	un cours de musique <i>a music lesson</i> un concert <i>a concert</i>		au collège at school	
	je suis <i>l am</i> je ne suis pas <i>l am not</i>	très very assez quite		actif(s) / active sportif(s) / sportive(s) <i>sporty</i>	
	nous sommes we are	membre(s) <i>a member</i>		de l'équipe de handball <i>of the handball team</i> d'un groupe de musique <i>of a music group</i>	



Coastal Defences			Water Cycle Key Terms					Lower Course of a River			
Hard Engineering De	fences		Precipitation Moisture falling from clouds as rain, snow or hail.				Near the river's mouth, the river widens further and becomes flatter. Material transported is deposited.				
Groynes	Wood barriers prevent longshore • No deposition further down		Interception	Vegetation prevent wa	ater reaching the ground.			Formation of Floodplains and levees	Natural levees		
	prevent longshore drift, so the beach	 No deposition further down coast = erodes faster. 	Surface Runoff Water flowing over surface of the land into rivers				en a river floods, fine silt/alluvium is deposited on the valley	np			
	can build up.		Infiltration	Water absorbed into t	he soil from the ground.		floor.	. Closer to the river's banks, the heavier materials build up to form natural levees.	AN ALL AND A ALL		
Sea Walls	Concrete walls break up the energy	 Long life span Protects from flooding 	Transpiration	Water lost through lea	ves of plants.		•	Nutrient rich soil makes it ideal for farming.	River		
	of the wave . Has a lip to stop waves	 Curved shape encourages erosion of beach deposits. 		Physical and Human	Causes of Flooding.		•	Flat land for building houses.			
	going over.		Physical: Prolong & heav Long periods of rain caus		Physical: Geology Impermeable rocks causes	auton runalita	River	Management Schemes			
Gabions or Rip Rap	Cages of rocks/boulders	 Cheap Local material can be used to 	saturated leading runoff.		increase river discharge.	surface runoff to	Soft Er	ngineering	Hard Engineering		
кар	absorb the waves energy, protecting the cliff behind.	 Local material can be used to look less strange. Will need replacing. 	<i>Physical:</i> Relief Steep-sided valleys chanr quickly into rivers causing		Human: Land Use Tarmac and concrete are i prevents infiltration & cau		risk. Demou	estation – plant trees to soak up rainwater, reduces flood untable Flood Barriers put in place when warning raised.	Straightening Channel – increases velocity to remove flood water. Artificial Levees – heightens river so flood water is contained.		
Soft Engineering Def	fences						Manag settlen	ged Flooding – naturally let areas flood, protect ments.	Deepening or widening river to increase capacity for a flood.		
Beach	Beaches built up	Cheap	Upper Course of a River								
Nourishment	with sand, so waves have to travel	 Beach for tourists. Storms = need replacing. 			nt from the hill/mountains. T ned vertically to form narrow		Hydro	ographs and River Discharge			
	further before eroding cliffs.	 Offshore dredging damages seabed. 	-				River discharge is the volume of water that flows in a river. Hydrographs who discharge at a certain point in a				
Managed	Low value areas of	Reduce flood risk	Formation of a Waterfall I) River flows over alternative types of rocks.			river changes over time in relation to rainfall					
Retreat	the coast are left to flood & erode.	 Creates wildlife habitats. Compensation for land. 				1. Peak discharge is the discharge in a period of time.					
			2) River erodes soft rock faster creating a step.		ep.	(currecs)					
			3) Further hydraulic action and abrasion form a plunge pool beneath.			n a plunge pool	2. Lag time is the delay between peak rainfall and peak discharge.				
									μα (τ μα) - μ - μ		
Case Study: Hunstant	ton Coast		Harder rock	4) Hard rock above is undercut leaving cap rock which collapses providing more material for erosion.		3. Rising limb is the increase in river discharge.					
Location and Backgro	ound		Softer rock	providing more i	5) Waterfall retreats leaving steep sided gorge.		4 Fall	4 Falling limb is the degrade in river discharge to			
Located on the North to visit all year round.		town is a popular sea resort for tourists		5) Waterfall retr			4. Falling limb is the decrease in river discharge to normal level.				
In 2013, the town suff and closed for a numb		surge. The Sea Life Centre was flooded	Middle Course of a Ri	Middle Course of a River				Time Case Study: The River Tees			
Geomorphic Processe	es			Here the gradient get gentler, so the water has less energy and moves more slowly. Th				Location and Background			
 Old Hunstanton is do up behind objects. 	ominated by dunes that are	formed when sand is trapped and built	will begin to erode laterally making the river wider.					Located in the North of England and flows 137km from the Pennines to the North Sea at Red Car.			
 Hunstanton Cliffs are white chalk). 	e made from three different	bands of rock (sandstone, red chalk and	Formation of Ox-bow Lake	es				Geomorphic Processes			
	exposed to cliff retreat. This ace to become unstable and o	is when a wave-cut notch develops eventually collapses.	Ste	ep 1		Step 2		Upper – Features include V-Shaped valley, rapids and water waterfall drops 21m and is made from harder Whinstone an			
-Longshore drift travels from Sheringham in the north to the Wash in the south.		Erosion of outer bank forms river cliff. Deposition inner bank forms slip off slope.			Further hydraulic actio		Waterian dups 2 that and barren to the net of the source o				
					and abrasion of outer banks, neck gets small						
Management -Hunstanton is protected by a number of groynes. These trap sand to build up the beach					-		Mudflats at the river's estuary.				
for better protection.		revent flooding and deflect the waves	Ste	ep 3		Step 4		Management			
energy.	n spent on beach nourishme	revent flooding and deflect the waves	so ri	Erosion breaks through neck, so river takes the fastest route, redirecting flow		Evaporation and depos cuts off main channel leaving an oxbow lake.		-Towns such as Yarm and Middleborough are economically a there. -Dams and reservoirs in the upper course, controls river's fl			
······································							- Better flood warning systems, more flood zoning and river dredging reduces flooding.				

What is Urbanisation? Sustainable Urban Living **Traffic Management** This is an increase in the amount of people living in urban areas such as Sustainable urban living means being able to live in cities in ways that do not Urban areas are busy places with many people travelling by different modes towns or cities. In 2007, the UN announced that for the first time, more than transport. This has caused urban areas to experience different traffic congestion pollute the environment and using resources in ways that ensure future 50 % of the world's population live in urban areas. generations also can use then. that can lead to various problems. Where is Urbanisation Water Conservation **Energy Conservation** Environmental problems happening? This is about reducing the amount of Using less fossil fuels can reduce · Traffic increases air pollution which Urbanisation is happening all water used. the rate of climate change. releases greenhouse gases that is Collecting rainwater for gardens and over the word but in LICs and Promoting renewable energy leading to climate change. NEEs rates are much faster flushing toilets. sources. than HICs. This is mostly Installing water meters and toilets Making homes more energy Social Problems Economic problems because of the rapid that flush less water. efficient. - Asia economic growth they are Educating people on using less Encouraging people to use energy. Congestion can make people late for There is a greater risk of accidents • experiencina. water. work and business deliveries take and congestion is a cause of **Causes of Urbanisation Creating Green Space** Waste Recycling longer. This can cause companies to frustration. Traffic can also lead to health issues for pedestrians. loose money. Creating green spaces in urban areas More recycling means fewer The movement of people from rural to Rural - urban migration (1) can improve places for people who resources are used. Less waste urban areas. **Congestion Solutions** want to live there. reduces the amount that eventually Push Pull Provide natural cooler areas for goes to landfill. · Widen roads to allow more traffic to Collection of household waste. people to relax in. flow easily. Natural disasters More Jobs Encourages people to exercise. More local recycling facilities. Build ring roads and bypasses to ٠ War and Conflict Better education & healthcare Reduces the risk of flooding from Greater awareness of the benefits in keep through traffic out of city Mechanisation Increased quality of life. surface runoff. recycling. centres Following family members. Drought Introduce park and ride schemes to · Lack of employment Unit 2a reduce car use. Encourage car-sharing schemes in When the birth rate exceeds the death Natural Increase (2) work places. rate. **Urban Issues & Challenges** Have public transport, cycle lanes & cycle hire schemes. Increase in birth rate (BR) Lower death rate (DR) Having congestion charges Sustainable Urban Living Example: Freiburg discourages drivers from entering · High percentage of population are Higher life expectancy due to the busy city centres. **Background & Location** Sustainable Strategies child-bearing age which leads to better living conditions and diet. high fertility rate. Traffic Management Example: Bristol Freiburg is in west Germany. The city The citv's waste water allows for Improved medical facilities helps Lack of contraception or education has a population of about 220,000. In rainwater to be retained. lower infant mortality rate. In 2012 Bristol was the most congested about family planning. 1970 it set the goal of focusing on The use of sustainable energy such city in the UK. Now the city aims to social, economic and environmental as solar and wind is becoming more develop it's integrated transport system sustainability. important. <u>i</u> 1 to encourage more people to use the **Types of Cities** 40% of the city is forested with public transport. The city has also many open spaces for recreation, invested in cycle routes and hiring Megacity An urban area with over 10 million people living there. clean air and reducing flood risk. schemes. More than two thirds of Greenbelt Area Integrated Transport System current megacities are located in either NEEs This is the linking of different forms of public and private transport within a city This is a zone of land surrounding a city where new building is strictly controlled and the surrounding area. to try to prevent cities growing too much and too fast. (Brazil) and LICs (Nigeria). The amount of megacities are predicted to increase Brownfield sites is an area of land or premises that has been previously used. The investment in the revival of old, urban areas by either improving what is from 28 to 41 by 2030.

but has subsequently become vacant, derelict or contaminated.

e investment in the revival of old, urban areas by either improving what is there or clearing it away and rebuilding.

Urban Change in a Major U	K City: Sheffield Case Study	Urban Change in a Major NEE Ci	ty: RIO DE JANEIRO Case Study	
Location and Background	City's Importance	Location and Background	City's Importance	
Sheffield is a city in South Yorkshire in the North of England. The population of the city is 575,000, making it the fifth largest in the UK. The city grew during the industrial revolution.	 The city enjoys a large sporting heritage with famous athletes and football clubs. Sheffield is famous for being described as the greenest city in Europe. Sheffield has a thriving community of international students. Sheffield has two major UK universities popular with young students. Fastest growing city outside of London. 	Rio is a coastal city situated in the South East region of Brazil within the continent of South America. It is the second most populated city in the country (6.5 million) after Sao Paulo.	 Has the second largest GDP in Brazil It is headquarters to many of Brazil's main companies, particularly with Oil and Gas. Sugar Loaf mountain is world heritage site One of the most visited places in the Southern Hemisphere. Hosted the 2014 World Cup and 2016 Summer Olympics. Christ the Redeemer is a new 7 wonder. 	
Migration to Sheffield	City's Opportunities	Migration to Rio De Janeiro	City's Opportunities	
During the industrial revolution, the population dramatically increased with people migrating from nearby rural communities.	Social: Sheffield has various cultural attractions such as the Crucible Theatre & museums. Also Meadowhall is very popular with shoppers.	The city began when Portuguese settlers with slaves arrived in 1502. Since then, Rio has become home to various ethnic groups.	Social: Standards of living are gradually improving. The Rio Carnival is an important cultural event for traditional dancing and music.	
With the attraction of working in the large steelworks or mines, international migrates from Ireland, Pakistan and the Caribbean came to work in Sheffield from 1900-1960.	Economic: The retail sectors contribute to thousands of jobs. The Universities and advanced manufacturing contributes to the city's economy.	However, more recently, millions of people have migrated from rural areas that have suffered from drought, lack of services and unemployment to Rio. People do this to search for a better quality	Economic: Rio has one of the highest incomes per person in the country. The city has various types of employment including oil, retail and manufacturing.	
More recently, refugees have arrived from Syria and Iraq. Also Sheffield has attracted thousands of students from the UK & abroad.	Environmental: Sheffield is described as being the greenest city in Europe. It's close to the Peak District and has various open spaces (i.e. the Peace Garden) for residents to enjoy.	of life. This expanding population has resulted in the rapid urbanisation of Rio de Janeiro.	Environmental: The hosting of the major sporting events encouraged more investment in sewage works and public transport systems.	
City Challenges	Sheffield City Centre Regeneration Projects	City Challenges	Self-help schemes - Rocinha, Bairro Project	
Social: House prices have increased along with greater house shortages. A third of households live in the 10% of the most deprived wards in the UK.	Aims: Sheffield wanted to attract investment in more businesses and job opportunities. Also the projects aim to improve public spaces with more green urban environments.	Social: There is a severe shortage of housing, schools and healthcare centres available. Large scale social inequality, is creating tensions between the rich and poor.	 The authorities have provided basic materials to improve peoples homes with safe electricity and sewage pipes. Government has demolished houses and 	
Economic: Closure of the steelworks and factories caused large scale unemployment. Poor transport connections to large economic hubs	Main features: Brownfield sites and derelict buildings pulled down, £50 million invested on its train station to improve connections, £120 million on green open	Economic: The rise of informal jobs with low pay and no tax contributions. There is high employment in shanty towns called Favelas	created new estates.Community policing has been established, along with a tougher stance on gangs with	
such as London and Manchester. Environmental: Urban sprawl has led to increased pressure and decline of greenfield sites around the	spaces with the construction of the Winter Gardens and Peace Gardens, £430m to improve the retail quarter and attract shoppers away from Meadowhall.	Environmental: Shanty towns called Favelas are established around the city, typically on unfavourable land, such as hills.	 military backed police. Greater investment in new road and rail network to reduce pollution and increase connections between rich and poor areas. 	
city.			and I	

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Term -1 Autumn -YEAR 10 | Health & Social Care | Unit 1: A1 Human growth and development across life stages

		Key terminology			
Life stage	Age	Example	Life stage = distinct phases of life that each person passes through		
Infancy	0 – 2 years	A rapid increase in PIES growth and development. Individuals are dependent on carers.	Characteristic = something that is typical of people at a particular life stage P.I.E.S = physical, intellectual, emotional, social		
Early childhood	3 – 8 years	Physical skills rapidly develop and are mastered. Children become more independent.	Growth = describes increased body size in terms of height and weight Development = involves gaining new skills and		
Adolescence	9 – 18 years	Huge physical and emotional changes occur in this life stages as individuals begin puberty. Start to form a wide range of relationships.	abilities such as riding a bike Classification – involves grouping similar things		
Early adulthood	19 – 45 years	Peak physical maturity occurs here . This life stage often has a number of major life events, such as marriage and children.	into a category Milestone – significant change in development Puberty = process towards sexual maturity,		
Middle adulthood	46 – 65 Usually in this life stage adults change emotionally and socially due to the ageing process beginning.		preparing adolescents for reproduction Menopause – ceasing of menstruation (periods)		
Later adulthood 65 + years		All types of development can decline in this life stage eg reduction of social circles and cognitive ability as people become physically weaker.	Mobility = use of gross motor skills Dexterity = use of fine motor skills Contentment = feeling happy in environment		

Types of physical development									
Gross motor development	The skills acquired to control and coordinate large muscles – legs, arms and torso.								
Fine motor development	The skills acquired to control and coordinate small muscles – hands, fingers and toes.								
Top to toe	Development starts from the head down – gaining control of the head before their back muscles and legs								
Inner to outer	Control starts from the body and moves out to the limbs , toes and fingers.								
Same patterns at different rates	All infants and children pass through the same stages but they may do so at different ages – they cannot skip a stage								

	Dexterity = use of fine motor skills Contentment = feeling happy in environment Self-esteem = how a person feels about themselves Self-image = how a person sees themselves					
	Attachment/bonding = emotional ties an individual forms with others					
Types of development						
-	wth patterns and changes in mobility of the all muscles in the body					
Describes how language	v people develop their thinking skills, memory and					
Describes how people develop their identity and cope with feelings						
Social Describes how people develop friendships and relationships. Also, how to behave in society – 'societal norms'.						
	Describes how language Describes how feelings					

Term -1 Autumn -YEAR 10

Health & Social Care

	Key terminology				
Factor	Definition	Example	Effects	Chronic = long term illness.	
Physical	Illness, inherited diseases and conditions that can affect development	Type 2 diabetes, cardiovascular disease, Cystic fibrosis, disability mental ill health	Pain, limited mobility, miss school/work, depression, anxiety, unable to socialise, delayed growth, loss of independence	Symptoms may be eased but not cured. Acute = illness comes on quickly, is short-term and can be cured eg	
Lifestyle	Choices by an individual which can affect growth and development	Exercise, diet, substance abuse eg drugs, alcohol, smoking	Cancers, type 2 diabetes, obesity, stiffness of joints, liver disease, lack of fitness, mood swings, infertility, delayed growth	flu Pollution = harmful substances or irritants that cause damage to people	
Emotional	Learning how to cope with feeling and deal with relationships	Grief when a loved one dies	Mental ill health, turning to unhealthy lifestyle choices, contentment, attachment issues	Lifestyle = involves the choices made that affect health such as diet and exercise	
Social	Experiences a person has with other people and the supportive and unsupportive relationship they have with them.	An unsupportive relationship with a sibling, bullying, discrimination	Social phobia, breakdown in relationships, trust issues, emotional security, dependant/independent, jealousy, rivalry	Gender role = is the role and responsibilities determined by a person's gender Bullying = is the repetitive intention to harm, coerce or	
Cultural	Experiences a person has with groups of people, community groups or in a social setting	Being an active member of a religious community, gender roles, race, community participation	Inclusion/exclusion, proud, sense of belonging, security/insecurity, relationship issues	intention to harm, coerce of intimidate Discrimination = treating a person or group of people differently from others	
Environmental	The location, conditions, housing, pollution, environmental and amount a space a person lives in.		Low self-image/self-esteem, insecure, illness, accidents	Physiological = relating to the function of parts of the body Role model = someone a person admires and strives to be like	
Economic	The amount of money, income or savings a person has	Employment income, savings, retirement	Stress, anxiety, sense of achievement, security.	Type 2 diabetes = the level of sugar in the blood is too high Obesity = someone who is an unhealthy weight	

Cardiovascular disease = involves the heart and blood vessels

History GCSE (Conflict & Tension)

Treaty of Versailles

	V	NHO / WHERE / WHAT / WHY		KEY INDIVIDUALS						
	1914-1918	WW1 bloodiest war in history.	1	George		ime Minister of Britain. Liked: British naval supremacy; Empire gained. Disliked: rsh reparations leading to loss of German trade; unhappy Germans likely to seek				
2	Aims of peacemakers	Although Britain, France & the USA had all fought together against Germany they all thought that lasting peace would be achieved in different ways. This led to disagreement between them. Ultimately, none of them got	2	Georges Clemenceau	Pri see mi Ge	venge. ime Minister of France. Nicknamed as 'Le Tigre' (the tiger). Army leader who had en France invaded twice by Germany. Liked: gaining Alsace-Lorraine; weak German ilitary. Disliked: low reparations; Germany having army at all; Rhineland still being erman.				
2	Clemenceau's	entirely what they wanted. No one satisfied. 1) Germany to pay to rebuild areas damaged	3	Woodrow Wilso		esident of USA (only joined war in 1917). Like: LoN creation. Disliked: 14 points nored; harsh treaty terms.				
5	aims	by war; 2) Revenge; 3) Weakened Germany				TERMS of ToV				
		that could not attack again; 4) Buffer area between France & Germany for safety.		War Guilt	Artic	le 231. Germany forced to accept all responsibility for war.				
Λ	Lloyd	1) Cautious balance –punishment that didn't	2	Reparations	Articl	le 232: amount set in 1921 at £6.6 billion.				
-	George's aims lea	lead to Germany wanting revenge; 2) Strong Germany to trade with and to act as buffer	3	Military		nan navy limited to 15k men/1.5k officers/6 battleships. Army to 100k men. No s, submarines or airforce. Conscription banned. Rhineland demilitarised.				
		against communism; 3) Gain German empire territories; 4) British naval supremacy.		League of Set up, but Germany not allowed to join. Nations		ip, but Germany not allowed to join.				
5	Wilson's aims	1) Fair peace; 2) 14 points, including League of Nations and Self-determination; 3) USA to stay out of European politics.	5	Land loss		ig taken & made into free port; Germany split in 2 by Polish corridor; Saarland (rich al) given to LoN control for 15 years; colonies given to LoN as mandates.				
6	9 Nov 1918	Kaiser Wilhelm II abdicates, to the	6	Anschluss	Unio	n between Germany and Austria forbidden.				
		Netherlands. Not involved in ToV.				KEY TERMS & IDEAS				
7	11 Nov 1918	Armistice signed, ending WW1. Germany	1	Armistice		Agreement to end fighting				
		agreed to pay reparations, give Alsace- Lorraine back to France and move German	2	Reparations	Payments demanded of defeated countries for damage caused by a war.					
		army out of Rhineland. However, Germany did not believe it was the only country at fault.	3	The Big Three/ Peacemakers		Terms used for the key countries/ polticians who led peace negotiations: Clemenceau (France), Lloyd-George (Britain) & USA (Woodrow Wilson).				
0	28 June 1919	Treat of Versailles is signed at Palace of	4	14 Points		Wilson's principles on how to keep peace.				
0	20 June 1919	Versailles (outside Paris) in Hall of Mirrors.	5	Self-Determination		Idea that people should decide for themselves who ruled them.				
9	Paris Peace	32 countries met in Paris for 7 months to	6	Diktat		Forced terms. Germany not allowed to negotiate.				
	Conference	discuss how to settle the aftermath of the war.	7	'Stabbed in the b	back'	Germans were devastated by being blamed and the terms. Term used against German politicians who signed. Dolchstoss in German.				

History GCSE (Conflict & Tension) | League of Nations (LoN) |

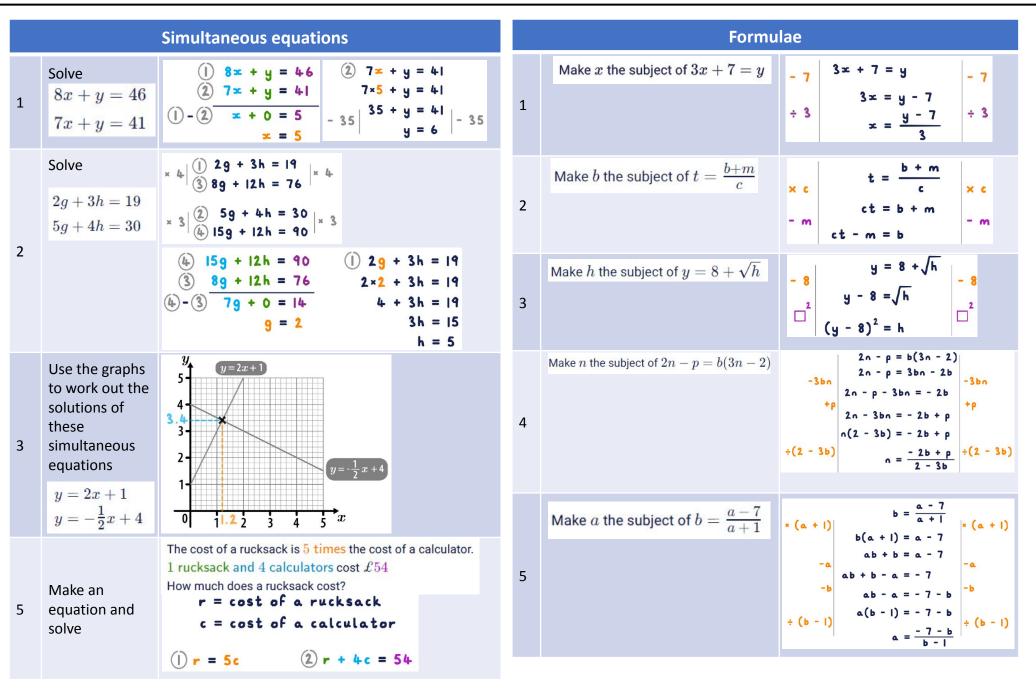
Nov - Dec

-			WHO / WHERE / WHAT / WHY	Structure of LoN					
4	29 1000	Treat			Structure of LoN				
1	28 June 1919	Treaty	of Versailles signed, committing to LoN.	1	Membership	-	Ily 42 countries joined. Germany (defeated) and USSR munist) not allowed to join. USA refused to join. Germany		
2	1920-1		invades Vilna, capital of Lithuania. The Polish army invaded but LoN did nothing nd strong ally vs Germany. FAIL.			allowed to	o join after agreeing Locarno Treaty.		
3	1921		islands crisis. Sweden & Finland disputed. League gave to Finland, but forbade ing built. Decision accepted. SUCCESS.	2	The Assembly		onal parliament. Each member sent representative. Met ar, making decision-making slow. Voted on issues, but		
4	1921-3		Silesia crisis. Plebiscite on if Upper Silesia to be German or Polish. Germany won tes, but Poland claimed fixed. Upper Silesia split by LoN into areas according to	3	The Council	Met more	Met more frequently. 4 permanent members: Britain, France,		
		how the	ey had voted. Both countries unhappy but did accept. FAIL & SUCCESS.			Italy & Ja	pan. +4 countries elected to sit on it for 3 years. Could gs made by Assembly.		
5	Aug 1923		risis. Italian general & team murdered in Greece. Mussolini demanded						
		but he	nsation, but Greece refused. Mussolini invaded Corfu. LoN condemned Mussolini, complained to the Conference of Ambassadors. Greece forced to apologise to ini and to pay compensation. FAIL.	4	The Permanent Court of International		onal court of law. Could hold hearings and advise but of compulsory so easily ignored.		
6	Oct 1925	Oct 1925 Greek-Bulgarian dispute. Greece invaded Bulgaria when Greek soldiers killed on border.							
			ced Greece to withdraw & pay compensation. Hypocritical since LoN allowed ini to get away with similar in Corfu. FAIL.	5	The Secretariat	Administr	ration and arrangement of any LoN action.		
7	Oct-Dec 1925	The Locarno Treaties. France & Germany agreed to work peacefully together. Ger accepted ToV terms. Britain & Italy also signed, agreeing not to go to war. Proposed by			SpecialSpecial groups such as ILO and Health Organisation, or tackle specific issues.		roups such as ILO and Health Organisation, designed to ecific issues.		
		Germar	ny, rather than LoN. Positioned Ger, not LoN, as peaceful leader.			•			
8	1928	Kellogg	-Briand Pact signed by 65 countries, including Ger & USA in Paris. Agreed to				League's agencies		
		settle d	lisputes peacefully. Outside of LoN.	1	ILO (International La	abour	Aim: Improve working conditions. Success: 1920s death rate of Tanganyika rail workers 50% to 4%. Fails: Most members		
9	Other		gton Naval Conference 1921-2. GB, Fr, USA & Jap agreed to limit navy size.		Organisation)		refused to stop children under 14 working as too expensive.		
	pacts		Treaty 1922. Ger & Russia agreed to work together. Outside of LoN.	2	2 Commission for refugees		Aim: Help those displaced by war, either improving refugee camps, help return home or find new homes. Success:		
			KEY TERMS & IDEAS				Returned 427k of 500k WW1 PoW still imprisoned. Fail: Jews 1930s Germany.		
1	Principles		One of Wilson's 14 points at ToV.	3	Slavery Commission	ı	Aim: end slavery. Success: 200k set free in Sierra Leone in 1920s.		
2	Aims of LoN		1) Collective security; 2) Encourage disarmament; 3) Improve living & working conditions; 4) Tackle deadly diseases.	4	Economic & Finance	5	Aim: improve living standards. Success: Financial advisors sent to Austria & Hungary in 1921. Fail: Unable to cope with global		
3	Collective Sec				Commission		depression post 1929.		
4	Covenant		Agreement on how LoN could deal with issues. Used 4 Ms: Mitigation, Moral	5	Organisation for Communications &	Transport	Aim: improve how countries work together. Success: Introduced shipping lanes & international highway code.		
			Condemnation, Money (trade sanctions) and Military (provided by members, no army of its own).	6			Aim: cure diseases. Success: Doctors sent to Turkish refugee		
5	Veto		To overturn/ stop a ruling going through.	7	Permanent Central	Opium	camps. Aim: tackle illegal drug trade. Success: Blacklisted 4 large		
6	Plebiscite		Vote of all people to decide issue.		(Narcotics post 1925				

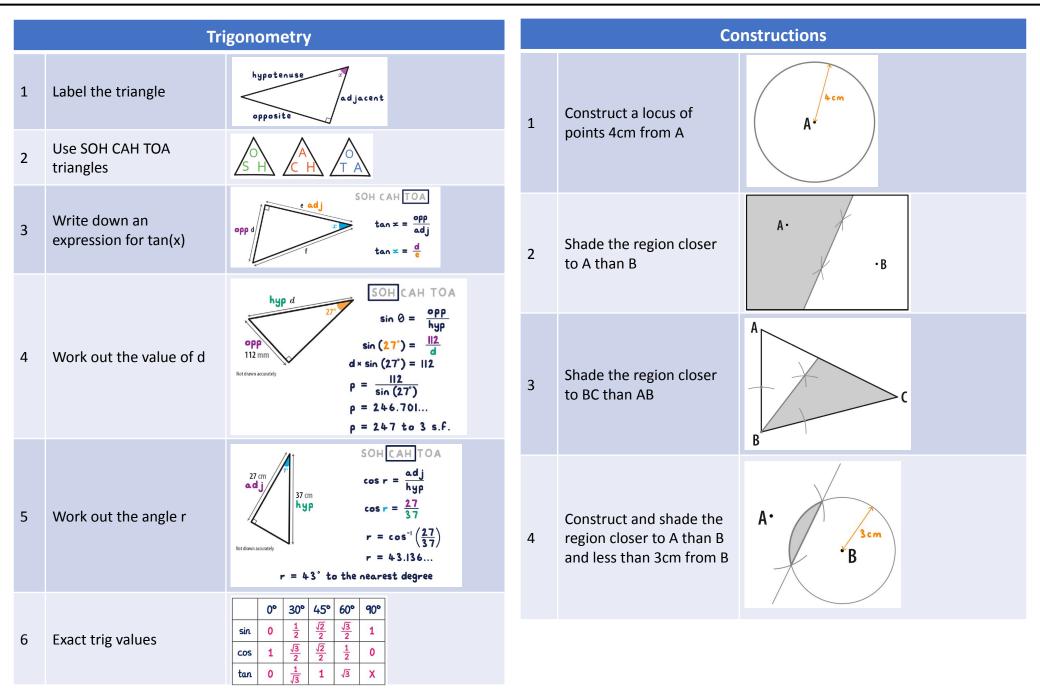
Year 10 Mathematics | Term 1 | Knowledge Organiser

	Р	ercentages		Surface area and volume				
1		Finding final	1	volume of pyramid	1 × base × perpendicular 3 × area × height			
		To M F?	2	volume of cone	$\frac{1}{3}\pi r^{2}h$ $h = perpendicular height$			
2	Original x Multiplier =	Finding the original A TV is reduced by 15% -> M It now costs £255 -> F	3	volume of sphere				
	Final	What was the price originally? >0?	4	volume of frustum	volume of volume of large pyramid small pyramid			
3		Finding the percentage change Jo's wage increases from £6.15 to £7.38 What is the % increase?		Surface area of a square based pyramid				
4	For the multiplier	 Start with 100 Go up or down Turn into a decimal 		Surface area of a cone	surface area = $\triangle + \bigcirc$ = $\pi rl + \pi r^2$			
5		The multiplier for a decrease of 40% 100% - 40% = 60%	7	surface area of a sphere	4πr ² r = radius			
6	Compound interest	$60\% = \frac{60}{100} = 0.6$ Original x Multiplier ^{years} = Final Multiplier is greater than 1		curved S.A. of frustum	curved S.A. curved S.A. of large cone of small cone			
7	Depreciation	Original x Multiplier ^{years} = Final Multiplier is less than 1						

Year 10 Mathematics | Term 1 | Knowledge Organiser



Year 10 Mathematics | Term 1 | Knowledge Organiser



YEAR 10 & 11 | MEDIA STUDIES | 01 - MEDIA LANGUAGE

P1: Section A P2: All NEA	products use lighting, colou What things m When we anal	a variety u <mark>rs, shape</mark> nean can yse <mark>Media</mark>	of tools an s, languag be conside a Language	d techn e, genre red as v e, we dig	It types of media community iques to get their points e, narrative, and characte what they signify (general g deeper into these eleme clayers of meaning in the	across eff ers - these lly point to ents and t	^f ectively things b). Mean ry to un	These tools are known c ning can be l derstand wh	s include things lik as "codes and conv literal (a denotation	e sound, editing, co ventions". on) or implied (a co	amera work, nnotation)		
SEMIOTIC ANALYSIS: Signify, Denotation, Connotation, Mise-en-scene					ound Colour, Shape, Imagery Verbal Ge & Typography Codes			Narrative	Models of Communication	The Constructed Nature of the Media	Intertextuality		
<u>CAMERA</u>	WORK (NON-V	ERBAL CO	<u>DDE):</u>		COLOUR, SHAPE, IMAG				MODELS OF CO	MMUNICATION:			
There are three i analysing <mark>camer</mark>	a work: Framin	<mark>9</mark> (the dist	tance from	Mea	YPOGRAPHY (NON-VERBA	urs, shape	Line	e <mark>ar model of</mark> rmation flow	communication is is directly from the	a one-way process sender to the rece	where iver.		
the camera to th camera) and Mov zooming, pannin	vement (hand-h			exan	imagery. A Golden Troph nple can <mark>denote</mark> winning <mark>note</mark> determination	info	Two-step flow of communication is a model that suggests information is received and influenced by opinion leaders, who then pass on their interpretations and ideas to others.						
Low-Camera ang pointing up) can					ography refers to the mea ified by fonts: style, spaci				NARR	ATIVE:			
may connote the High-Camera an	y are threaten	ing or pov	verful. A		(pointy bits), italics, bold		Narratives are based on conflict between Binary Opposites, e.g.,						
smaller which co					VERBAL CODES:		Good vs Evil.						
LIGHTING (NON-VERBAL CODE): High-Key Lighting is a media technique that reduces					oal codes are the specific uage used to convey mea municate messages.	0 Mide norr	Narratives follow a structure that is more complex than "Start – Middle – End". Todorov (a media theorist) says there are 5 stages to a narrative structure: 1 – Exposition, 2 – Disruption, 3 – Complication, 4 – Climax, 5 – Resolution.						
shadows and bo colours (saturati used to signify p	on). This type c				<u>GENRE:</u>	Cha	Character Theory by Propp (a media theorist) states there are only 7 types of character, including 'The Protagonist' (the person whose						
Low-Key Lighting shadows and po- between bright li	ols of light. It's	all about	the <mark>contra</mark>	med st or st	re refers to a category or ia that shares similar the corytelling <mark>conventions</mark> .	s. view	viewpoint the audience follow) and 'The Antagonist' (the person against the protagonist).						
lighting is often (tension.		Hyb diffe	ridity is the blending or n rent genres, styles, or ele	is si	Narrative codes refers to the idea that there are just 5 ways a story is signified. Barthes (a media theorist) says theses are:						
	-		-		in a single media produc		9						
Diegetic sound is "real life", such as floorboards, etc.					ething unique and divers			<u>Action Code:</u> Actions and events in a story that show a clear cause and effect relationship.					
					nch within a broader geni			Enigma Code: Mysterious elements or unanswered questions that					
Non-Diegetic sound is any noise that has been added for dramatic effect, such as music, drumbeats, voice overs, etc.			<u>100</u>	NSTRUCTED NATURE OF	IA: Sem	add intrigue to the narrative. <u>Semantic Code:</u> Information such as dates, place names, and times that provide important context.							
	INTERTEXTUA	LITY:			ia products do not show are created and edited,	ty. re <mark>Sym</mark>							
Intertextuality is the referencing or incorporation of other texts, such as books, movies, or music, within a particular media product.				f a co icon	nstruction. This is achiev s and symbols to present cality.	mea n <u>Cult</u>	meanings or ideas within the story. <u>Cultural (Referential) Code:</u> Shared cultural knowledge or references that enhance understanding for those familiar with them.						

Music: AOS2 Vocal Music: Music for A While | Year 10 | Autumn 1

	Baroque Style		Ke	y Words		Texture/Harmony		
1	Ornamentation of	1	Syllabic	1 word per note				
	melodic lines, decoration	2	Melismatic	Many notes per word	1	Tonic note	The 1 st note of the scale	
2	Major/Minor tone system	3	Ternary Form	ABA	2	Dominant note	A. The 5 th note in the scale	
3	Diatonic harmony –	4	Antiphonal	Swapping between 2 groups	2	Dominant note	Note 5 would be E starting on an A.	
	notes belonging to the	5	Imitation	То сору	3	Contrapuntal	Two melodies played	
	key	6	Syncopated	Off beat			against each other	
4	Monophonic – single line of melody	7	Basso Continuo	Continuous bass part Harpsichord/Bass viol	4	Counterpoint	'Tune against tune' combination of 2 or more	
5	Homophonic – Chords and Melody	8	Figured Bass	Numbers to indicate what chord is to be	_	Secondary (melodies with independent rhythms To a key that is the dominant key of the	
6	Word Painting – the	0	Succession	played. Where a note is	5	Secondary dominant		
	music depicts the words	9 Suspension		supended and resolves			dominant. Eg C Major, G is the dominant and the	
7	Sequence – Repetition of			creating a clashing sound (Dissonance)			dominant od G is D Major,	
	a music phrase higher or	10	Dissonant	A clashing sound	6	Deceing	the secondary dominant. Modulations where the	
	lower	11	Conjunct	Stepwise	6	Passing modulations	new key only lasts for a	
8	Suspensions – A	12	Dominant	5 th note of the scale			few bars	
	prolonging note to creating dissonance.	13	Disjunct	Leaps in the melody	7	Relative minor	The minor key of the Major scale	
9	Affection – one mood	14	Ground Bass	A repeating pattern in the bass	8	Variant	A phrase whose shape	
		15	Da Capo Aria	A song which repeats a section			resembles the original.	

	Melody						
1	Syllabic	1 note per word					
2	Melismatic	Many notes per word					
3	Conjunct	Stepwise					
4	Word Painting	On the words ETERNAL the melody line goes on and on. Distain there is a clashing sound.					
5	Onomatopoeia	On the word DROP the music goes lower					

	Harmony						
1	A Minor	Notes which are in the key of A minor G# as accidentals					
2	C Major	No Sharps or Flats					
3	Ornaments	Decorations on notes					
4	(Lower)Mordent	Plays the written note and then the note below before returning to the written note					
5	Appoggiatura	Notes which are played before the main note					
6	Tierce D'Picardi	Sharpening the 3 rd in the chord to make an Minor chords sound Major					

	Instrumentation						
1	Soprano Voice	A high female voice					
2	Harpsichord	Plays the Ground Bass, supports the harmony, directs the ensemble					
3	Bass Viol	Plays the Ground bass with the Harpsichord					

	Structure					
1	Ternary Form	ABA				
2	Intro	Bars 1-3 to set the mood, Harmony, Tonal centre, Tempo				

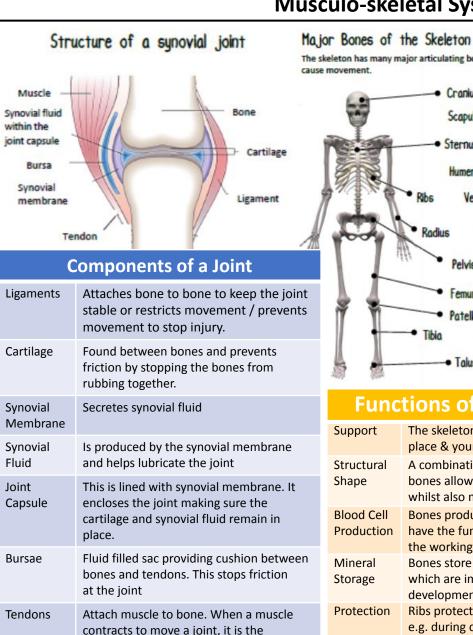
	Texture						
1	Homophonic	Chords (Accompaniment) and Melody					

AOS 2: Killer Queen | Year 10 | Autumn 2

	К	ey Words					Mu	sic Technology	
		•		Key Information				a recording of a performance (or	
1	Vaudeville	a form of comic musical theatre from the 1880s	1	Structure	Intro, verse, chorus, Instrumental, Verse, chorus, Guitar solo 1, Guitar solo 2, Verse, chorus, Outro	1	Multi-trac k	performances) on separate tracks in which each track can be edited individually to change levels, add	
2	Glam	a genre of rock known for over-the-top, glamorous dress sense including platform shoes, glitter and flamboyant hairstyles	2	Unusual Introducti on Metre	Finger clicks	2	Panning	effects. Is giving sounds different levels in the left and right speakers so it sounds as if they are coming from a	
3	Middle <u>8</u>	connects two sections of a pop or rock song but is not necessarily	4	Tonality Texture	E flat major homophonic, polyphonic and	3	Effects	new direction. electronic devices designed to enhance or alter the basic sound quality (for example, delay, reverb).	
		eight bars long.			antiphonal textures	4	Flanger or	an effect creating a swirling or	
4	Outro	a concluding section, sometimes like a coda in Classical music.		Guitar Techniques and Effects 1 Cano a clamp fastened across all			flanging	swooshing sound. Word painting: depicting a word in music to imitate its meaning.	
5	Gospel music	a musical style with		Саро	the strings to raise their pitch	5	Distortion	Effect that increases the volume, sustains on an electric guitar as well as making the timbre more gritty or	
		tradition in which vocal harmonies play a		String/pitch bends	distorts/changes pitch			smooth depending on the settings.	
		prominent role.	3	Slides/portam ento/glissando	slides between pitches	6	Wah-wah	a filter effect in which the peak of the	
6	Swung	music that has a triplet feel, even when notated with straight		Vibrato	rapid change of pitch/fluctuating pitch			filter is swept up and down the frequency range in response to the player's foot movement on a rocker pedal.	
7	Homophon ic	quavers Chords and Melody	5	Picking/plucki ng/plectrum/ sixpence	clear/hard/articulated/separ ated/detached	7	Reverb	an effect which creates the impression of being in a physical crace	
8	Polyphon	Many sounds together	Ū	Hammer on	legato change of pitch (up)	8	Synthesiser	space Electronic musical instrument that creates sounds by manipulating or	
9	Hocketin g	alternating between parts, single notes, or groups of notes	7	Pull off	legato change of pitch (down)	9	Overdubbing	by modifying existing sounds. recording an instrumental or vocal part over previously recorded	

Musculo-skeletal System

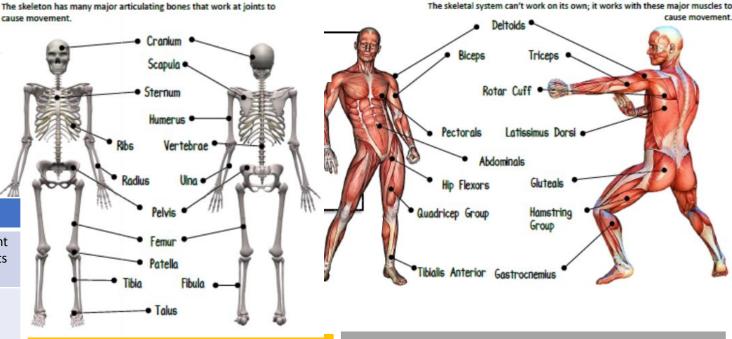
Year 10 Term 1



tendon which pulls on the bone, keeps

muscles/bones stable or holds join in

place



Functions of the Skeleton

Support	The skeleton holds your vital organs in place & your vertebrae hold you upright
Structural Shape	A combination of fused and unfused bones allows the body to be stable whilst also moving at different joints.
Blood Cell Production	Bones produce red blood cells which have the function of carrying oxygen to the working muscles.
Mineral Storage	Bones store minerals, such as calcium, which are important for growth & development.
Protection	Ribs protect internal organs from injury, e.g. during contact sports.
Movement	The structure & type of different bones determine the movement at the points where they meet (a joint).

Antagonistic Muscle Pairs

Deltoids

Rotar Cuff

Abdominals

Biceps

Pectorals

Flexors

Triceps

Latissimus Dorsi

Gluteals

Hamstring

Group

Major Muscles of the Human Body

Muscles can only PULL, they cannot push

A muscle must work in partnership with another muscle to allow movement to occur.

The muscle that causes the movement (the pulling muscle) is called the AGONIST or PRIME MOVER. When this muscle contracts in becomes shorter

During this time the other muscle within this partnership is relaxing. This muscle is called the **ANTAGONIST** and is <u>lengthening</u> while it relaxes

EXAMPLE:

When we flex our elbow the bicep is the agonist and the triceps is the **antagonist**. However these roles are reversed when the elbow extends, with the triceps becoming the agonist and the bicep becoming the antagonist..

Types of Movement at a		Types o	of Muscle Contraction	<u>Types of Joint</u>			
	Joint		This type of contraction takes place when the body is being held in the same	Ball and Socket Joint			
<u>Flexion</u> and <u>extension</u> at the shoulder	 The Deltoid causes flexion at the shoulder The Latissimus dorsi causes extension at the shoulder 	Contractions	position. The length of the muscle during these contractions stays the same length. These contractions occur when there is movement of the body. The ends of the	Pelvis			
Flexion and	- The Biceps cause flexion at the elbow	Contraction	muscles move closer together to cause the movement.	Shoulder blade			
<u>extension</u> at the elbow	- The Triceps cause extension at the elbow	Types of Isoton	ic Contraction: occurs when the muscle	Humerus (scapula)			
<u>Flexion</u> and <u>extension</u> at the knee	 The Hamstrings cause flexion at the knee The Quadriceps cause extension 	Isotonic Concentric Contraction	shortens e.g. biceps contracting concentrically during the upwards phase of a bicep curl / triceps contracting	Location in Body: Shoulder and Hip			
Flexion and extension at the hip	at the knee - The Hip Flexors cause flexion at the hip - The Gluteals cause extension at the hip		concentrically during the upwards phase of a press-up occurs when the muscle lengthening (antagonist) is under tension. An eccentric contraction provides the	Type of Movement Allowed by Joint: Flexion, Extension, Adduction, Abduction, Rotation			
<u>Flexion</u> and <u>extension</u> at the ankle	 The Tibialis Anterior causes dorsiflexion at the ankle The Gastrocnemius cause plantar flexion at the ankle 	Isotonic Eccentric Contraction	control of a movement on the downward phase and it works to resist the force of gravity e.g biceps contracting eccentically when lowering the weight in a bicep curl /	Hinge Joint Femur Patella Humerus Radius			
<u>Rotation</u> of the s houlder	- The Rotator Cuff causes rotation at the shoulder		triceps contracting eccentically during the downwards phase of a press-up.				
Abduction and	- The deltoid causes abduction at the shoulder	Types of Bone					
<u>Adduction</u> at the shoulder	- The Pectorals / Latissimus Dorsi cause adduction at the shoulder	Flat Bones	protect vital organs e.g. <u>cranium</u> protects your brain, <u>ribs</u> protect heart and lungs	Knee			
<u>Circumduction</u> at the hip	- The Hip Flexors , Gluteals , Adductors and Abductors work together to cause circumduction (a circular motion) at the hip	Long Bones	enable gross (large) movements e.g. <u>femur, tibia and fibula</u> in the leg which allow us to run, <u>humerus, radius and ulna</u> in arm which allows us to throw a ball.	Fibula Tibia Ulna			
Circumduction at the shoulder	- The Rotator Cuff , Pectorals and Deltoid work together to cause circumduction (a circular motion) at the shoulder	Short Bones	enable fine (small) movements e.g. fingers allowing you to spin a cricket ball.	Type of Movement Allowed by Joint: Flexion and Extension			

DARKROOM: PHOTOGRAMS | YEAR 10 | PHOTOGRAPHY | TERM 1

DARKROOM KEYWORDS

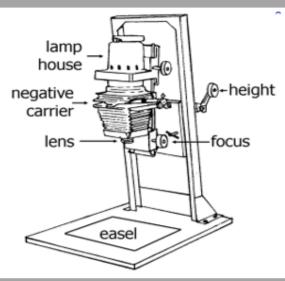
1	Photogram	A photographic image produced without a camera.
2	Latent Image	Hidden image after exposure that will be revealed by development
3	Test Strip	Used to determine the correct exposure for a print or contact print
4	Exposure	The amount of light which reaches your camera sensor or film/photographic paper.
5	Developer	one or more chemicals that convert the latent image to a visible image.
6	Stop bath	Solution to stop the developing process.
7	Fixer	Used to stabilise the photographic image
8	Final Wash	Used to remove any remaining chemicals from the film or paper.
9	Safety Light	Light that will not affect light sensitive material. RED light is safe for paper. There is no safe light for film.
10	Tone reversal	Creative negative version of an original image through the process of contact printing

ENLARGER SET UP	HEIGHT	FNO	EXPOSURE TIME	PROCESSING	DEVELOPER	STOP	FIX	FINAL WASH
Photogram	35cm	8	8s average			BATH		
Contact print	35cm	2.8	15s (or test at 5s)	Print/paper	90s	30s	2m	5min

TYPES OF PHOTOGRAM

1	Sunprint	A photogram created just by long exposure to sunlight.	
2	Normal	Traditional Photogram without any additional processes added	N
3	Transparent	Photograms created using transparent objects.	
4	Chemigram	An image created by applying and manipulating various darkroom chemicals on the surface of the photographic paper.	
5	Painting with chemicals	Photogram that combines traditional photogram technique with chemigram process and result in the partial revealing of the image.	
6	Positive	Unlike traditional photogram that captures the negative space of an object, in positive photogram the tones have been reversed though the process of contact printing a normal photogram	La N
7	Moving	Photogram resulting from dividing the exposure into several shorter ones and moving/removing objects with each step.	N
8	Projected	Small flat objects are enlarged and projected using the photographic enlarger, rather than placing them directly on the photographic paper	A F
9	Stencil	Photogram created using a double exposure, combining photogram of a texture with a photogram of an opaque object.	

PARTS OF THE ENLARGER



ARTIST INSPIRATION

	Henri Fox- Talbot	1800-1877. English scientist and pioneer of photography. He created the first ever negative in 1835.
ce of esult	Man Ray	1890-1976, Artist that contributed to Dada and Surrealist movement. He was known for his work with Photograms that he called Rayographs.
	Laszlo Moholy- Nagy	1895-1946. Hungarian painter and photographer, who produced a body of experimental photograms.
	Andreas Feininger	1906-1999. American photographer known for studies of the structures of natural objects.

Y10 | Psychology |Chapter 1: Memory

Processes of Memory

Encoding

Definition: Changing information into a form that can be held in the brain.

Visual Encoding: Information by how it looks. Acoustic Encoding: Information by how it sounds.

Semantic Encoding: Information by its meaning. Other Encoding: Tactile (touch), olfactory (smell).

Storage

Definition: Holding information in memory so it can be retrieved later.

Retrieval

Definition: Locating and bringing back information into mind.

Types:

Recognition: Identifying from options. Cued Recall: Locating with a clue. Free Recall: Without cues.

A Study of Encoding

Baddeley's Study:

Aim: To see differences in encoding in STM and LTM.

Method: Participants learned words

(similar/dissimilar sounding, similar/dissimilar meaning). Immediate and delayed recall (after 20 minutes).

Results: STM is encoded by sound; LTM by meaning.

Conclusion: Encoding varies between STM and LTM and backs up the Multi-Store Model.

Processes of Memory

Different Types of LTM

Episodic Memory: Events from life- personal experiences **Semantic Memory:** General knowledge- factual info **Procedural Memory:** How to do things- muscle memory

Structures of Memory

Primacy and Recency Effect:

Words at the beginning are remembered more (rehearsed, so in LTM). Words at the end are remembered more (heard recently, so in STM). Murdock's Study (KEY STUDY) Aim: To see if memory of words is affected by location in a list. Method:

Participants listened to 20-word lists with 10–40 words, recalled words after each list.

Results:

Recall related to the position of words. Higher recall for first (primacy effect) and last words (recency effect) than in the middle.

Conclusion:

Shows the serial position effect and supports the MSM stores.

Evaluation

Controlled Lab Study:

High level of control; concluded position of words determined recall.

Artificial Task:

Word lists used, only one type of memory, study lacks validity.

Extra:

Supporting research (Carlesimo et al.) shows some amnesiacs can't store LTM, linking primacy effect to LTM.

Structures of Memory

Multi-store model (KEY THEORY):

Three memory stores with different coding, capacity, and duration. Information moves through attention and verbal rehearsal. **Sensory Memory:** Very short duration, large capacity. Attention transfers information to STM. STM (Short-term Memory): Limited duration (30 seconds) and capacity (5-9 items), acoustic coding. **Role of Rehearsal:** Keeps information in STM. Repeated rehearsal transfers STM into LTM. LTM (Long-term Memory): Semantic coding, unlimited capacity, stored up to a lifetime. **Evaluation** Supporting Research: Encoding research (Baddeley) shows qualitative differences between STM and LTM. Simple Model: Having one STM and one LTM store is too simplistic, e.g., more than one LTM store. Extra: Artificial materials used in research (word lists/consonant syllables) so the model lacks validity

Y10 | Psychology | Chapter 1: Memory

Memory as an active process

Reconstructive Memory: (KEY THEORY) Definition: Memory isn't a perfect playback of past events but is actively reconstructed using various pieces of information.

Key Points:

Active process: people rebuild memory as an active process.

Social and Cultural Expectations:

Memories can be influenced by personal beliefs, expectations, and knowledge. **Memory is inaccurate:** Gaps in memory are filled in using schemas (mental frameworks).

Effort after meaning: we focus on meaning of events first and make effort afterwards to make sense of fragments of memory.

Evaluation:

More realistic research: reflects how we use memory in everyday life because it uses a story not word lists.

Some memories are accurate: not all recall is reconstructed as some memories of the story are accurate.

Real World Application: it explains problems with eyewitness testimony as people do not always recall accurately. **Education:** Teaching strategies can be developed to align with how memory reconstruction works.

Memory as an active process

Bartlett's War of the Ghosts Study: (KEY STUDY)

Aim: To investigate how memory is reconstructed when people are asked to recall something unfamiliar.

Method: Participants read a story and later recalled it (15mins after). This process was repeated known as serial reproductions. Results: Participants changed the story to fit their own cultural expectations. Conclusion: Memory is influenced by existing

knowledge and can be inaccurate and reconstructed.

Evaluation:

Lacks control: Participants were not told accurate recall was important, which could have affected results.

Results were biased: Bartlett analysed the recollections himself, so we can't fully trust the conclusions.

Story was unusual: Story was Native American Story so may not reflect everyday memory processes.

Lab study: standardised procedures so can be replicated increasing reliability.

Factors affecting the accuracy of memory

Interference

Definition: When information competes with other information, leading to confusion or forgetting- happens when the information is similar.

Proactive Interference: Old information interferes with new information.

Example: Struggling to remember a new phone number because of an old one.

Retroactive Interference: New information interferes with old information.

Example: Forgetting an old address after moving to a new one.

Context-Dependent Memory-

Definition: Recall is better when the external environment at retrieval matches the environment at encoding.

Example: Studying in the same room where you will take the test can improve memory performance.

Divers Study: Learnt word lists underwater and on land- had to recall in same place as learnt or different places. Found that recall was highest when two environments matched at learning and retrieval. **Applications:**

Education: Students might perform better if they study in an environment similar to the test setting.

Crime Scene: Eyewitnesses might recall details more accurately when revisiting the crime scene.

False Memories

Definition: Recollections of events that never actually happened, influenced by suggestion, imagination, or misinformation.

Loftus and Pickrell's Study:

Aim: To investigate the creation of false memories.

Method: Participants were given a booklet with true events and one false event (getting lost in a mall).

Results: Some participants recalled the false event as if it were real. **Conclusion:** False memories can be easily implanted.

Y10 | Psychology | Chapter 2: Perception

Sensation and Perception

Sensation: How our sensory organs (eyes, ears, skin, etc.) receive and transmit information to the brain.

Perception: Understanding how we interpret sensory information to create our view of the world.

Difference between the two: Sensation is the detection of a stimulus whereas perception is interpreting what it means.

Theories of Perception:

Gibson (nature) vs Gregory (nurture) Gibson says sensation and perception are the same, Gregory says they are different.

Visual Cues

Binocular Depth Cues: helps us perceive depth and distance using information from two eyes. **Retinal Disparity**:

Definition: 6cm difference between the view of the left and right eye gives brain information about depth and distance.

Example: When you look at an object with both eyes open, each eye sees a slightly different angle of the object. The brain uses the disparity between these two images to calculate depth. **Convergence**:

Definition: Eyes point closer together when an object is close. Muscles work harder so know distance and depth.

Example: When you look at your finger held close to your face, your eyes converge or turn inward more than when you look at a distant object. The brain uses this convergence angle to judge distance.

Visual Cues

Monocular Depth Cues: help us perceive depth and distance using information from one eye

Linear Perspective:

Definition: Parallel lines appear to converge as they recede into the distance.

Example: Railway tracks appearing to meet at a single point in the distance.

Relative Size:

Definition: Objects that are farther away appear smaller than objects that are closer. Example: A person standing far away appears smaller than the same person up close.

Height in Plane:

Definition: Objects that are higher in the visual field are perceived as farther away, while objects lower in the visual field are perceived as closer. Example: In a landscape, mountains that are higher up appear farther away compared to hills or objects closer to the viewer's level.

Occlusion (Overlap):

Definition: Occlusion occurs when one object partially covers or overlaps another object. The partially covered object is perceived as farther away because it is seen as being behind the object that partially covers it.

Example: A person standing in front of a tree will partially obscure the tree from view. The tree is perceived as farther away because it is seen as being located behind the person

Visual Illusions

Happen when our visual perception is tricked into seeing something inaccurately. We misinterpret what is actually there in reality.



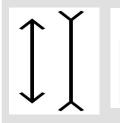


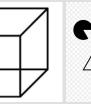
Ponzo illusion



Rubin's vase

Ames Room







Muller-Lyer

Necker Cube

Kanizsa Triangle

Reasons/Explanations for Visual Illusions

Misinterpreted depth cues- a depth cue is used inappropriately – e.g. Ponzo & Muller-Lyer, Ames room. Ambiguity- having more than one possible meaning or interpretation - Rubin's vase and Necker Cube Fiction – creating something that isn't really there to complete an image - Kanizsa triangle Size constancy – keeping our original perception of the size of an object, even when the image received by the eyes changes.

Y10 | Psychology |Chapter 2: Perception

Theories of Perception- KEY THEORY

Gibson's Direct Theory of Perception: NATURE side of the argument.

Key Points:

Sensation and Perception are the same: no inferences are needed as eyes detect everything.

Optic Flow: when moving, things in the distance appear stationary and everything else rushes past. Eyes help us judge depth and distance.

Motion Parallax: a monocular depth cue, in a train, objects that are closer, move faster and objects higher up, move slower.

Influence of nature: perception is born and not learned, no need for past experiences.

Evaluation:

Real World Meaning: research on WW2 pilots and their ability so relevant to daily life. Struggles to explain visual illusions: why are we tricked by illusions if we have all the information we need.

Research Support: visual cliff experiment, babies didn't crawl off a visual cliff so shows that we are born with depth perception.

Contrasting Theory: Gregory believes it is learned.

Theories of Perception- KEY THEORY

Gregory's Constructivist Theory of Perception: NURTURE side of the argument.

Key Points:

Sensation and Perception are different:

brain uses incoming information and information we already know to form a hypothesis/guess.

Inferences: brain fills in the gaps to create a conclusion about what is being seen. Visual Cues: visual illusions occur because of incorrect conclusions from visual cues-'known as mistaken hypothesis'.

Past Experience: the role of nurture:

perception is learned from experience. Our perception becomes more sophiscated as we grow up and interact more with the world around us.

Evaluation:

Support from research in different cultures:

people interpret visual cues differently (Hudson's study) showing experience affects perception.

Visual Illusions: Gregory's research used 2D visual illusions which are artificial, so theory may not apply to the real world.

How does perception get going? Babies have some perceptual abilities (Fantz study) so perception can't be just about experiences.

Contrasting Theory: Gibson believes it is innate.

Factors Affecting Perception

Culture: social world we live in affects what our senses pick up e.g. Hudson Study

Emotion: tendency for our brain to notice exciting things and block out threatening things.

Motivation: Gilchrist and Nesberg (KEY STUDY):

Aim: To find out if food deprivation affects perception of food. **Method:** 2 groups, one group deprived for 20 hours, control group not deprived. Shown 4 slides of foods and had to adjust level of brightness to slide shown.

Results: Food deprived group perceived food as brighter compared to non deprived group.

Conclusion: Hunger is a motivating factor that affects perception.

Evaluation:

Artificial: used 2D pictures so not applicable to real life **Ethical Issues:** deprivation of food causes physical harm, however they did volunteer.

Support from similar studies: Sanford study supports as found similar results in relation to food deprivation and perception.

Expectation: Bruner and Minturn (KEY STUDY):

Aim: To find out if an ambiguous figure is seen differently if the context is changed.

Method: 2 groups- one group shown numbers sequence and one group shown letters sequence- both sequences had same ambiguous figure. Results: Number group saw a 13 whereas letter group saw a B. Conclusion: Expectation does affect perception (context influences)

Evaluation:

Artificial: ambiguous figure is meant to trick us- lacks validity Independent Group Design: Participant variables may have influenced the results (e.g. if you had a B in your name- more likely to see that) Real World Application: can help us explain why people make mistakes in the real world.

Plant Organ	isation	Why are there transparent cells in the upper epidermis of a leaf?	Let light into the leaf	
Write down the definition of osmosis.	The movement of water particles from a high water potential to a low water potential (down a concentration gradient), through a partially permeable membrane	Which tissue of the leaf absorbs the most light for photosynthesis?	Palisade meophyll	
How is a root hair cell adapted for osmosis?	Lots of hairs/projections that increase the surface area so more water can be absorbed.	What is the role of spongy mesophyll?	Gaseous exchange	
What is required for active transport?	Energy from respiration	How does carbon dioxide enter and	Diffusion through the stomata	
What is a concentration gradient?	The difference between two concentrations	oxygen leave a leaf?		
Define the terms solute and solvent	Solute- Soluble solid/substances that dissolves Solvent- A liquid that the dissolves the solute	How is the leaf adapted for efficient gasesous exchange?	Large surface area, guard cells which can open and close stomata	
What are the differences between hypertonic, hypotonic and isotonic? (HT)	Hypertonic- less solute inside the cell, more outside Hypotonic- more solute inside, less outside Isotonic- same amount of solute inside/outside cell	What does the xylem transport?	Water and minerals.	
What is a plant stem cell called?	Meristems	In which direction does water move through the xylem?	From the roots to the leaves.	
Where would you find plant stem cells?	Meristem (tip of plant)	What is the water loss from a leaf	Transpiration	
How are plant stem cells different to adult stem cells or embryonic stem cells?	They can differentiate at any time, throughout the life of the plant	called?		
What is an advantage of using plant stem cells?	Can be used to produce clones of plants quickly and economically. Rare species can be cloned and	What is the transpiration stream?	The flow of water from the soil up the xylem to be evaporated in the leaf.	
	prevented from extinction. Crop plants with special (e.e disease resistance) can be cloned to produce lots of identical plants for farmers	What increases the rate of transpiration?	Increasing temperature, increasing light intensity, increasing wind speed, decreasing humidity.	
Describe how a xylem cell is adapted to carry out its function	Dead, hollow cells that form a tube. Lignin for strength and to withstand water pressure	How many directions can materials move in the phloem?	Two	
Describe how a phloem cell is adapted to carry out its function	Live cell, contains sieve plates to distribute sugar evenly throughout the plant	What process is used in the phloem to move materials against the	Active transport	
Why do leaves have veins?	For water to be brought to the cells via the Xylem and products of photosynthesis to be removed via the	concentration gradient?		
	phloem.	Why are there mitochondria present	Transfer the energy for active transport.	
What are the names of the two transport tissues in plants?	Xylem and Phloem.	in phloem cells? How do root cells get glucose for	Via translocation through the phloem.	
What is the purpose of the waxy cuticle?	Prevent water loss	respiration without photosynthesis?		

What term describes a substance that attacks metals, stonework and skin?	Corrosive
What type of substance turns litmus paper red?	Acid
What happens in all chemical reactions?	New substances are formed.
What kind of reaction occurs between an acid an alkali?	Neutralisation
What do you call a solution which is neither acidic nor alkaline?	Neutral
Give the name and formula of a common laboratory acid.	Hydrochloric acid (HCl), nitric acid (HNO3), sulfuric acid (H2SO4), etc
Which ion is in excess in all acid solutions?	Hydrogen ions or H+ ions
Which ion is in excess in all alkali solutions?	Hydroxide ions or OH– ions
What scale is used for measuring acidic and alkaline properties?	The pH scale
Name three examples of acid/alkali indicators apart from universal indicator.	Litmus, methyl orange and phenolphthalein
What pH values are acidic?	Below 7
What happens to the pH as the H+ ion concentration increases?	It decreases
If a solution has the same concentration of hydrogen ions as hydroxide ions, how is it described?	Neutral or pH = 7
What word describes a solution that contains a large amount of solute in a small volume of solvent?	Concentrated
How can a solution be made more dilute?	By adding solvent/water
What kind of reaction occurs between an acid and a base?	Neutralisation
What is formed when an acid reacts with a base like a metal oxide?	Salt + water
What acid would be used to make zinc sulfate from zinc oxide?	Sulfuric acid
What process can be used to separate an insoluble solid from a liquid?	Filtration

How can a sample of a dissolved salt be obtained from a salt solution?	Evaporation of the water
In general, what is the pH of an alkaline solution?	Greater than 7
What colour is litmus solution in acidic solutions?	Red
What name is given to substances that react with acids to form a salt and water only?	Bases
Which salt is formed when copper oxide reacts with sulfuric acid?	Copper sulfate
What type of solution has a pH of 7?	Neutral
Name the salt produced when sodium hydroxide reacts with hydrochloric acid.	Sodium chloride
What name is given to substances that are soluble bases?	Alkalis
Name a piece of apparatus used to measure volumes of liquid.	Measuring cylinder/ pipette/ burette
Name the separation method used to produce crystals from a solution.	Crystallisation
Name the acid needed to make ammonium nitrate.	Nitric acid
Which acid is needed to make copper sulfate?	Sulfuric acid
Which base is needed to make copper sulfate?	Copper oxide
What is the name of the salt formed from zinc oxide and hydrochloric acid?	Zinc chloride
Which gas is formed when dilute hydrochloric acid reacts with magnesium?	Hydrogen
Which gas is formed when dilute hydrochloric acid reacts with magnesium carbonate?	Carbon dioxide
What is the chemical test for hydrogen?	It gives a squeaky pop with a lighted splint
What is seen when magnesium is added to dilute sulfuric acid?	Effervescence/ fizzing/ bubbles
Which gas is produced when copper carbonate is added to dilute nitric acid?	Carbon dioxide
What is the chemical test for carbon dioxide?	It turns limewater milky.

Year 10 Science	Term	1	What is the name of the electrode that the negative ions move to?	Anode.
Redox Chemistry			How do you test for chlorine gas?	bleaches litmus
What element is added during evidation?			What is produced at the anode (positive electrode) when lead	Bromine.
What element is added during reduction?	Hydrogen		bromide is electrolysed?	
What element is removed during oxidation?	Hydrog		If a metal chloride is being electrolysed what gas will be produced?	Chlorine
	Oxyger		What do we call a liquid, containing free moving ions, which is broken down by electricity in the process of electrolysis?	Electrolyte
What two processes occur in a redox reaction?		ion and oxidation.	Why can a molten or dissolved ionic compound conduct electricity?	Free moving ions.
What is oxidation in terms of electrons?		electrons	What is oxidation?	gain of oxygen / loss of electrons
What is reduction in terms of electrons?		electrons	What is produced at the cathode (negative electrode) is the metal in	
		es more Positively charged	the solution is more reactive than hydrogen?	liydrogen.
How does the charge of an ion or atom change during oxidation?	Decom	es more rosilively charged	Why is electrolysis an expensive way to extract metal from its ore?	Large amounts of energy needed.
How does the charge of an ion or atom change during reduction?	Becomes more negatively charged.		What is produced at the cathode (negative electrode) when lead bromide is electrolysed?	Lead.
Why are metals said to be oxidised when	Metal atoms lose electrons.		What is reduction?	loss of oxygen / Gain in electrons
reacting with acids?			What is an ore?	Metal compound in a rock.
What is reduced when metals react with acids? Hydrogen ions from the acid reduced to become hydrogen gas. Floctrolycic			What is aluminium oxide mixed with to lower its boiling point?	molten cryolite
		Ionic compounds need to be eitherororto be electrolysed	Molten or dissolved in water	
Electrolysis What do we call the liquid that dissolves a solute to form Solvent a solution?		Why do ionic compounds need to molten or dissolved to conduct?	lons (i.e. charge carriers) must be free to move.	
/hen Aluminium oxide is electrolysed what forms at the athode?		Aluminium	What does OIL RIG stand for?	Oxidation is Loss, Reduction is Gain
Why is electrolysis used to extract aluminium form its		Aluminium is more reactive	When Aluminium oxide is electrolysed what forms at the anode?	Oxygen
ore?		than carbon.	If metal sulphate is being electrolysed what gas will be produced?	Oxygen
Name the compound from which aluminium is extracted.		Aluminium oxide/ bauxite.	Predict the products of electrolysis of copper sulphate solution	Positive electrode: Oxygen gas;
In electrolysis positive ions move towards the?		Cathode (negative electrode)		Negative electrode: Copper.
In electrolysis negative ions move towards the?		Anode (positive electrode)	Are hydrogen ions reduced or oxidised at the electrodes?	Reduced
		Anode (positive electrode)	How are metals, less reactive than carbon, extracted from their	Reduction with carbon.
Which electrode is connected to the negative terminal of Ca an electricity supply?		Cathode (negative electrode)	ores? How do you test for oxygen gas?	Relights a glowing splint
		Anode (positive electrode)	What solution have you electrolysed if you get hydrogen gas, chlorine gas and sodium hydroxide produced?	Sodium chloride solution (brine)
		Anode (positive electrode)	Which state do ionic compounds not conduct electricity?	Solid
produced at?			Why do the carbon anodes need replacing regularly?	They gradually decay away (due to
Where are hydrogen ions produced?		Cathode (negative electrode)		reacting with the oxygen)

YEAR 10 | Spanish |

| MODULE 1

SENTENCE BUILDER 1

1.1 ¿Qué haces con tu móvil normalmente? What do you do with your phone normally?							
requency phrases	Verb (present tense)	Noun	Opinion phrase	Opinion verb	Reason		
Siempre	mando	mensajes	En mi opinión	es	seguro/a(s)		
Always	I send	messages	In my opinion	it is	safe		
	recibo	correos eléctronicos			-		
A menudo	I receive	emails	Creo que	son	práctico/a(s)		
Often	leo	las noticias	I think that	they are	practical		
	l read	the news					
A veces	juego	a los videojuegos		puede(n) ser	adictivo/a(s)		
Sometimes	I play	videogames		it/they can be	addictive		
	hago	compras en linea					
lodos los días	Ido	shopping online			peligroso/a(s)		
Every day					dangerous		
Casi nunca	saco	fotos			fácil de usar		
Lasi nunca Almost never	I take	photos			easy to use		
Almost never	subo				easy to use		
	l upload				bueno/a(s) para		
	veo	programas			mantenerse en contact		
	I watch	programmes			good to stay in contact		
		séries			good to stay in contact		
		series			una pérdida de tiempo		
		documentales			a waste of time		
		documentaries					
	escucho	música					
	I listen	music					
	chateo	en línea					
	l chat	online					
		con mis amigos					
		with my friends					
	grabo	vídeos					
	l record	videos					
	uso	las redes sociales					
	l use	social media					
	utilizo	mi ordenador					
	l use	my computer					
		aplicaciones como					
		apps such as					

SENTENCE BUILDER 2

1.2	¿Qué haces en tus ratos libres? What do you do in your free time?			
Time phrase	Verb		Noun	
Durante mi tiempo libre During my free time En mis ratos libres In my free time Normalmente Normally	juego <i>I play</i> hago <i>I do</i> voy <i>I go</i> Opinion verb	Infinitive	al fútbol <i>football</i> al baloncesto <i>basketball</i> al vóleibol <i>volleyball</i> al tenis <i>tennis</i> al tenis de mesa <i>table tennis</i> al hockey sobre hielo <i>ice hockey</i> a las cartas <i>cards</i>	
Generalmente Usually A veces Sometimes De vez en cuando From time to time A menudo Often	me gusta <i>I like</i> me encanta <i>I love</i> me interesa <i>I'm interested in</i> no me gusta <i>I don't like</i> no me gusta nada <i>I really don't like</i> odio <i>I hate</i> prefiero <i>I prefer</i>	jugar <i>to play</i> hacer <i>to do</i> ir <i>to go</i>	deporte sport ciclismo cycling natación swimming baile dancing ejercicio exercise atletismo athletics al centro (de la ciudad) to the (city) centre al centro comercial to the shopping centre al parque to the park a la costa to the coast al campo to the countryside al gimnasio to the gym a la piscina to the swimming pool a la casa de mi amigo to my friend's house a un club de fútbol to a football club	
Connective	Verb (3 rd person)	Infinitive verb phrase		
porque because	me ayuda a <i>it helps me to</i>	estar en forma to stay in shape olvidarme de todo forget everything mantenerme en contacto con mis amigos stay in contact with my friends	5	

PORTFOLIO OF SKILLS | YEAR 10 | TEXTILES | AUTUMN TERM

	ARTIST ANALYSIS		ASSESSMENT OBJECTIVES	
FACT	What can you see in the artwork?What information can you find about the artwork?What Textile Processes can you see in the artwork or artist work?What formal elements are in the construction of the artwork?		Develop ideas through purposeful investigation and exploration. Find images, artists, and techniques relevant to the unit theme. Include info: what, how, why (key words).	
FICTION	What context does the artwork have?What theme, culture, time, location or society does it connect to?Has any of the content been exaggerated or hidden in the artwork?What identifying features are there from the artist or message?	A01	Identify techniques, media, materials, and skills. Demonstrate critical understanding of sources through written and practical responses. Include own thoughts about the work. Written in own words with correct spelling, grammar, and punctuation.	
FUTURE	What inspiration are you taking from the artwork or artist?How are you going to respond to the artwork?Does the context of the artist work influence you?What connections does the artwork have to your own?		Present work in a creative way: samples, drawings, own photos of connections. Refine work and ideas through deliberate and relevant experimentation. Find and use technique instruction, demonstration, and information. Select and exhibit a variety of samples and media evidence.	
	THREADING THE SEWING MACHINE	A02	Identify connections and overlaps with techniques.	
STEP 1	Turn Off the Sewing Machine: Before you begin threading up TURN OFF your sewing machine! This is for safety, as your hands will be near the needle and moving machinery.	AC	Experiment with appropriate media, materials, techniques, and processes. Include equipment, media, materials, diagrams, method, key words, and vocabulary (technical recipe).	
STEP 2	Put the Needle Up: Turn the handwheel on the side of the sewing		Use research to develop technique, skills, and creative knowledge.	
	machine towards you until the needle is fully up. Positioning the Thread Spool: Begin by putting the thread spool onto the		Present work in a creative and methodical way. Record ideas, observations, and insights relevant to intentions.	
STEP 3	spool holder. You may also have a spool holder that is sitting sideways.		Communicates through written and visual media: drawings, collage, and stitch.	
STEP 4	Back Thread Guide: Holding the thread place it through the back thread guide. There should be a small groove or hook. Make sure the thread goes through this otherwise the machine won't sew correctly.		Annotate samples, experimentations, observations, and developments. Collect source material to use in design work: own photos, museum visits/tickets, drawings,	
STEP 5	Front Thread Guide: Take the thread down the front channel and around	33	and notes.	
5121 5	the front tension guide at the bottom.	A03	AO1 and AO2 has inspired design work and connections are clearly identified throughout.	
STEP 6	Through the Take-up Leaver: Take the thread up from the front thread guide and through the take-up lever hook.		Investigate the most appropriate media, materials, techniques, and textile skills to use within the unit.	
STEP 7	Above Needle Hook: Pull the thread down the channel from the take-up lever and through the small hook above the needle. This hook is usually		Use resources creatively to produce a variety of design ideas that are relevant to intentions.	
	around the same spot the top of the needle sits.		Clearly identify work progress, idea generation influences and directional changes related to the body of work.	
STEP 8	Thread The Needle: Place the thread in the eye of the needle from the front through to the back. Pull the thread under the presser foot and past the back of the machine to create a long thread tail.		Plan and adapt ideas to create a personal successful outcome. Ensure that all components of final outcome are own work (not copies).	
STEP 9	Insert the Bobbin: Remove the bottom cover by pulling it towards you and place the bobbin into the bobbin case. Follow the arrow directions on the bobbin cover for the way to position the bobbin correctly.	A04	Work independently, making informed decisions. Demonstrate a strong understanding of visual language. Select the best bits from all the assessment objectives to include in personal outcome.	
	Pull Up the Bobbin Thread: Hold the top thread tail while turning the	AC	Identify where improvement is required and confidently adapt design work to show changes.	
STEP 10	handwheel towards you on the sewing machine. You should see the		Realise intentions and designs with conviction, confidence, and purposeful intent.	
	bobbin thread looped around the top thread. Pull until you can grab the		Exhibit a clearly developed and improved set of textiles skills from sampling to outcome.	
	bobbin thread. Replace the bobbin cover on the machine.		Present an imaginative meaningful personal and informed response to the unit theme	