

Hard work • Excellence • Integrity

2023-2024

Year 10 | Cycle 3 100% Book

Name:		
Tutor group:		

Your 100% book and knowledge organisers

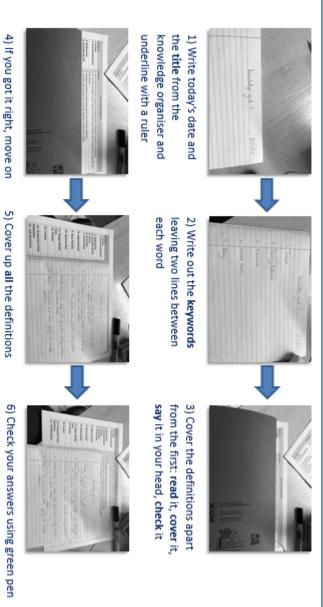
what you have learnt in lessons in order to remember this knowledge for the long-term. must know. This will help you recap, revisit and revise Knowledge organisers contain critical knowledge you

themselves after learning. Students remember 50% more when they test

part of your equipment. You must have this 100% book for every lesson – it is

finished the cycle or the year). You must keep your 100% books (even after you have

How do I use my 100% book for self-quizzing?





and quiz yourself on the rest

and write them out from

Tick any definitions which are correct Correct any definitions not completely

<u>in your head,</u> one by one

Correcting spelling, punctuation and grammar

Your work will be marked across all subjects to help you improve your literacy. This is the code that will be used.

Correcting your spelling, punctuation and grammar								
	The underlined word is spelt incorrectly.							
Sp + underlined word	Look, cover, write then check. Do this at least three times so you spell it correctly.							
A circle around part of	Your punctuation is incorrect, or something is missing (including capital letters).							
a word or a space	roar parietation is incorrectly or something is missing (meraaning capital rectors).							
?+ wobbly line	You haven't explained your ideas clearly enough.							
/	You need to start a new sentence here.							
·	Remember: full stop, capital letter.							
//	You need to start a new paragraph here.							
	Remember: new paragraphs for time, place, topic, person (TiPToP).							
^	A word is missing where the arrow is pointing.							



Year 10 – Cycle 3 – Art – Project 'Fragment'

1	Acrylic	A water-based, plastic paint that is thicker than watercolour paint					
2	Canvas	Fabrics that are prepared for painting					
3	Collage	The combination of pieces of cloth, magazines and other found objects to create artwork					
4	Primary colours	Red, yellow and blue					
5	Secondary colours Orange, violet, green. Each colour is midway between the primary colours from which it can be mixed						
6	Tertiary colours Obtained by mixing adjoining primary and secondary colours						
7	Contrast Created by using opposites near each other, such as a light object next to a dark object						
8	Character	An individual symbol that makes up a typeface, for example a letter, number or a punctuation mark					
9	Highlights	Small areas on a painting or drawing on which reflected light is the brightest					
10	Intensity	The brightness or the dullness of a colour					
11	Balance	The arrangement of elements in a work of art so that they appear symmetrical or asymmetrical					
12	Dominance	An object or colour that stands out					
13	Hue	Colour					
14	Fixative	Used to fix charcoal drawings on canvas before painting					
15	Value	Shadows, darkness, contrasts and light					

Year 10 – Cycle 3 – GCSE Citizenship: Politics and Participation

1	Democracy	Citizens can use their voice through voting in fair elections
2	Representative democracy	A type of government where citizens elect others to represent them
3	Equality	Equal treatment for all
4	Rule of law	The principle that the law applies equally to everyone
5	Councillor	A citizen who is elected and works in a local council
6	Referendum	A vote on one particular issue
7	House of Commons	Members who are elected and responsible for making laws
8	Judiciary	Made up of judges responsible for the legal system
9	Legislature	A group that decides the law
10	Executive	Those who make the key day-to-day decisions in the country
11	Prime Minister	Leader of the government
12	Parliament	Where MPs meet and pass new laws
13	Cabinet	Senior and important members of the government
14	Devolution	The transfer of power from national to local government
15	Voter apathy	Citizens having a lack of interest in voting
16	Constituency	An area which elects an MP to represent them
17	Individual liberty	People have the freedom to make their own choices and decisions
18	Political parties	A group of people who share the same political beliefs

Year 10 – Cycle 3 – Drama

A: Wri	A: Written terms			B: Vocal descriptions					
1	Describe	To give details of what you saw, heard or experienced	1	Bellow	To shout in a deep, angry voice				
	Familia	To city the game of a second	2	Hiss	Sharp sound with prolonged vowels used to show disapproval or contempt				
2	Explain	To give the purpose and reason	3	Moan	A prolonged, low sound used to complain or show boredom				
3	Analyse	To examine something, looking at different perceptions of it for/as an audience	4	Whimper	A high-pitched quiet tone used to show pain				
4	Evaluate	To judge or form an opinion	5	Murmur	A low quiet and prolonged tone used to gossip				
			C: Physical descriptions						
5	Point	What the main theatre element you will focus on in the paragraph is, with terminology used	1	Rigid	A firm and inflexible posture used to show anger or fear				
6	Example	The description of how the theatre element will be used in the scene	2	Balanced	A neutral posture that shows character is ready to go				
7	Style	The manner in which something is performed,	3	Hunched	Back curled over, often used to show older person				
,		such as naturalistically or comically	4	Slouched	A relaxed posture used to show confidence, informal				
8	Motivation	What a character wants or needs in a scene	5	Drooped	Loose body tension, head down posture used to show sadness or lack of energy 6				

Year 10 – Cycle 2 – Design & Technology

1	Synthetic Polymers	Man-made polymers created from crude oil
2	Biopolymers	Polymers made from natural resources such as plants
3	Carbon fibre reinforced polymer (CFRP)	A thermoforming polymer reinforced with carbon fibre
4	Glass-reinforced plastic (GRP)	A thermoforming polymer reinforced with glass fibres
5	Plasticisers	An additive that gives flexibility to polymers
6	Stabilisers	An additive in polymers that reduces UV degradation and brittleness
7	Extrusion	A length of material with a consistent cross-section
8	Filament	The extruded material that is used in a 3D printer
9	One-off production	One product is made
10	Batch production	Several identical products are made
11	Jigs	A mechanical device to aid production
12	High-volume production	Many products are made, making extensive use of machinery and manufacturing aids
13	Blow moulding	A method of shaping thermoforming polymer by heating it and blowing it into shape
14	Vacuum forming	A method of shaping thermoforming polymer by heating it and sucking it around a mould
15	Screen printing	A printing process for adding detail or text to polymer products
16	Vinyl	A self-adhesive polymer, available in a range of colours, suitable for CNC knife cutting
17	Anthropometrics	The practice of taking measurements of the human body and provides data that can be used by designers
18	Ergonomics	The relationship between people and the products they use 7

Year 10 – Cycle 3 – Design & Technology

1	Persona	A character used to represent a user that might use your product to help understand users' needs, experiences, behaviors and goals
2	User journey	The experiences a person has when interacting with something to understand pain points
3	Product analysis	The process of examining existing products on the market for their function, cost, size, safety, aesthetics and more
4	Primary data	Data gathered by yourself ' first-hand'
5	Secondary data	Data collected by others 'second-hand'
6	Client	The person the designer is working for
7	End user	The person or group of people a product is designed for
8	Customer	The people who would purchase the product
9	Empathy mapping	A process that helps you to identify the thoughts and feelings of a particular user group
10	Design fixation	When a designer limits their creativity by only exploring one avenue of design or relying heavily on existing designs
11	Iterative design	A repeated cycle of quickly implementing designs or prototypes, gathering feedback and refining the design
12	Obsolescence	When a product becomes unusable or out of date
13	User-centred design	Looking at and checking the needs, wants and requirements of the user at every stage of the design process
14	Focus group	A group of people used to track if a product design is on track
15	Schematic drawing	A visual representation of a circuit or system
16	Render	Adding colour or texture to make a design look realistic
17	Low-fidelity prototype	A quick prototype that gives a basic idea of a product's looks or functions
18	High-fidelity prototype	A detailed and accurate prototype similar to the final product
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Year 10 – English – Anthology Poetry

Α	Poem	Key quotation		В	Term	Definition
1	Ozymandias	'Wrinkled lip and sneer of cold command'		1	Nostalgia	Longing for or thinking fondly of a past time or condition.
2	London	'In every face / Marks of weakness, marks of woe'	╽╽	2	Disillusioned	Disappointment after realising that a belief they hold is
3	My Last Duchess	'That's my last duchess painted on the wall'		3	Transient	false. Lasting only for a short time; not permanent
4	Tissue	'Smoothed and stroked / thinned to be transparent'		4	Narcissistic	Having an excessive admiration for oneself and one's physical appearance
5	Storm on the Island	'Spits like a tame cat turned savage'		5	Desensitised	Less likely to feel distress when shown scenes of suffering and cruelty because you have seen many
6	Exposure	Our brains ache in the merciless iced east winds that knives us'		6	Oppression	Prolonged cruel or unjust treatment or exercise of authority
7	The Prelude	'Grim shape / Towered up between me and the stars'		7	Authoritative	Commanding and self-confident; likely to be respected and obeyed.
8	Charge of the Light Brigade	'Into the jaws of death / Into the mouth of hell'		8	Exile	The state of being kicked out from one's native country
9	Bayonet Charge	'King, honor, human dignity etcetera, dropped like luxuries'		С	Term	Definition
10	Remains	'And the drink and the drugs won't flush him out'		1	Speaker	The person speaking in the poem (not the poet)
11	Poppies	'I listened, hoping to hear / Your playground voice catching on the wind'		2	Stanza	A group of lines separated from another in a poem
12	War Photographer	'A hundred agonies in black and white'		3	Enjambment	When the sentence runs onto a new line of poetry without punctuation at the end of the line
13	Kamikaze	'Till gradually we too learned / to be silent'	1	4	Volta / shift	A turning point in a poem
14	The Emigree	'I have no passport, there's no way back at all'		5	Dramatic monologue	A poem in which an imagined speaker addresses the reader
15	Checking out me History	'But now I checking out me own history / I carving out me identity'		6	Caesura	A stop or pause in a line of poetry, usually caused by punctuation 9

Year 10 – Cycle 3 – French

A: Verbs and structures			23	I am healthy	je suis en bonne santé				
1	I am going to do work experience	je vais faire un stage	24	It is necessary to eat vegetables	il faut manger des légumes				
2	I want to help people	je veux aider les gens	25	You must not smoke	on ne doit pas fumer				
3	I would like to do A-levels	je voudrais faire le Bac	26	It is necessary to sleep 8 hours	il faut dormir huit heures				
4	I hope to travel	j'espère voyager	27	It is necessary to go to the doctor	il faut aller chez le médecin				
5	I am going to do volunteering	je vais faire du bénévolat	28	When I was little	quand j'étais petit				
6	I intend to go to university	j'ai l'intention d'aller à l'université	29	I used to eat	je mangeais				
7	I want to do a degree	je veux faire un diplôme	30	I used to do	je faisais				
8	If I succeed	si je réussis	31	I used to drink	je buvais				
9	I will do	je ferai	32	She is going to do shopping	elle va faire les magasins				
10	I will go	j'irai	33	I am going to have fun	je vais m'amuser				
11	I will have j'aurai			B: Vocabulary					
12	I will travel	je voyagerai	1	1 Doctor médecin					
13	It will be	ça sera	2	Lawyer	avocat				
14	I will work as	je travaillerai comme	3	Nurse	infirmier				
15	I drink	je bois	4	Builder	maçon				
16	l eat	je mange	5	Sweets	les sucreries				
17	In order to stay in shape	afin de rester en forme	6	Fat	la matière grasse				
18	I have the flu	j'ai la grippe	7	Cakes	les gâteaux				
19	I have a cold	j'ai un rhume	8	Meat	la viande				
20	My head hurts	j'ai mal à tête	9	Fizzy drinks	les boissons gazeuses				
21	My stomach hurts	j'ai mal au ventre	10	Healthy food	la nourriture saine				
22	I am healthy	je suis sain	11	Diet	le régime 10				

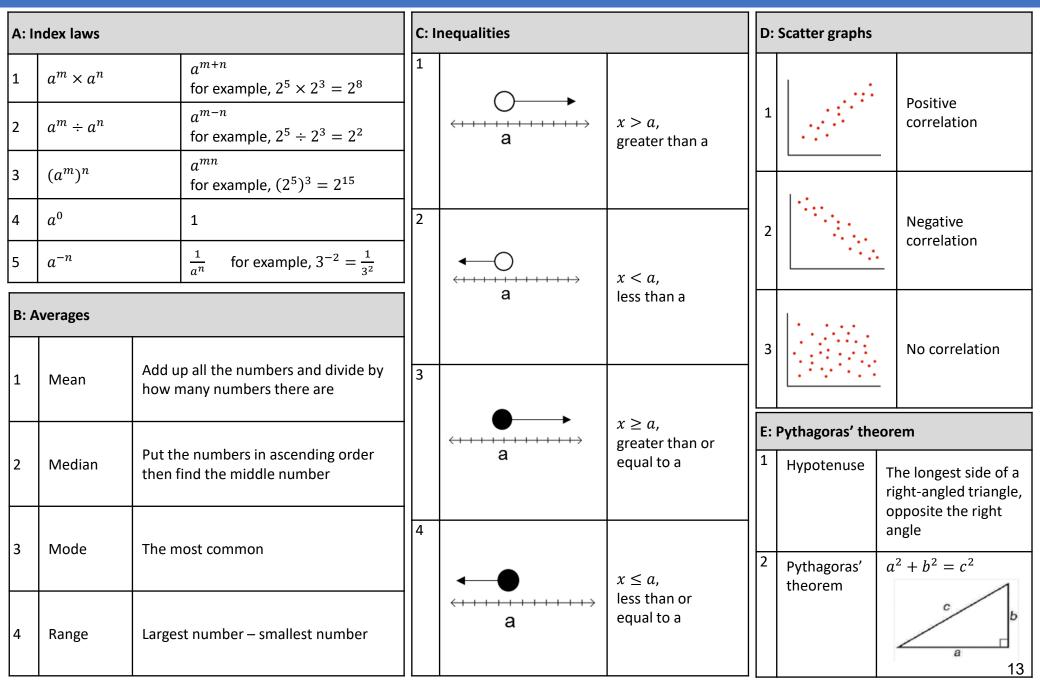
Year 10 – Cycle 3 – Geography

A: Weath	er Hazards & Climate Ch	ange	B: Fieldwork				
1	Coriolis effect	Wind being deflected north and south from the equator due to the spinning of the Earth	I I RIVAT discharge I		The volume of water flowing through a river channel at a given point		
2	Milankovitch cycles	Natural changes to the Earth's orbit and position	2	The four types of erosion	Hydraulic action, abrasion, attrition, solution		
3	Greenhouse effect	The natural process of the Earth's atmosphere trapping some solar radiation	3	Representative	A sample which reflects the whole		
4	Enhanced greenhouse effect	Human activity causes more greenhouse gases to be released, causing global warming	4	Reliable	If you measure it again you will get the same results		
5	Tropical storm	A very intense, low pressure system	5	Sample	The group of people or sites you choose to investigate		
6	Storm surge	A temporary rise in sea level caused by low pressure	6	Stratified sample	Choosing people or sites based on pre- determined groups		
7	Meteorological drought	A lack of precipitation due to high pressure systems	7	Systematic sample	Choosing people or sites at equal intervals		
8	Hydrological drought	When water stores dry up	8	Random sample	Selecting people or sites without bias		
9	Monsoon	A rainy season experienced by countries in southeast Asia	9	Bias	Prejudice for or against one particular group of people or place 11		

Year 10 – Cycle 3 – GCSE History: Germany

Impact of World War One on the Weimar Republic								
1	Dolchstoss	The theory that the Weimar government had stabbed Germany in the back for signing the armistice and the Treaty of Versailles						
2	Constitution	The laws that set out how a country is going to be governed						
3	Coalition government	A government containing two or more political parties						
4	Proportional representation	The voting system used by the Weimar Republic which led to coalition governments						
5	Article 48	Special powers given to the President to take control away from the Reichstag during a state of emergency						
6	Reichstag	The German parliament						
7	President	The head of state who was in control of the army and could use Article 48						
8	Chancellor	The head of the coalition government in the reichstag						
9	Gleichschaltung	The German term for bringing all of Germany into line with Nazi values						
10	Trade unions	A group of workers from a particular trade that is formed to protect or further the rights of the workers						
11	Führer	Hitler's title which combined the role of president and chancellor						
12	Rearmament	The process of building up the military						
13	Aryan race	The Nazi term for 'pure' Germans						
14	Boycott	Deliberately not purchasing / using something for political reasons						
15	Gestapo	Nazi secret police						
16	Lebensraum	Living space						
17	Anschluss	The political and economic union of Germany and Austria						
18	Appeasement	A policy which makes allowances to a hostile country in order to maintain peace						

Year 10 – Cycle 3 – Mathematics (Foundation)



Year 10 – Cycle 3 – Mathematics (Higher)

A:	A: Proportion			B: Surds			D: Trigonometry							
1	y = kx	y is directly proportional to x	2	$\sqrt{a} \times \sqrt{b}$ $\sqrt{a} \times \sqrt{a}$	$\sqrt{a \times b}$	1	sin x		= Opposi Hypoten		O S H			
	$y = kx^2$		3	$\sqrt{\frac{a}{b}}$ Scatter graphs	$\frac{\sqrt{a}}{\sqrt{b}}$									
2	0 x	y is directly proportional to the square of x	C.			2	cosx		$= \frac{\text{Adjacent}}{\text{Hypotenuse}}$		7			
	$y = k\sqrt{x}$		1	• • •	Positive correlation	3	tan x		$= \frac{\text{Opposite}}{\text{Adjacent}}$					
3	0 **	y is directly proportional to the square root of x				E: Exact Values								
	$y = \frac{k}{x}$		2	14. 14.	Negative	1	x	0 °	30°	45°	60°	90°		
4	<i>y</i> •	y is inversely proportional to x		147.	correlation		sin x	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1		
	0 x					2	х	0 °	30°	45°	60°	90°		
	$y = \frac{k}{x^2}$						cos x	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0		
5	y A	y is inversely proportional to the square of x	3		No correlation	3	х	0 °	30°	45°	60°	90°		
	0 x					3	tan x	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	Undefined 14		

Year 10 – Cycle 3 – Music

1	Melody and accompaniment	A tune with accompaniment	9	Repetition	A musical idea is repeated exactly
2	Unison	All parts play or sing the same music at the same time	10	Imitation	An idea is copied in another part with slight differences
		same time	11	Sonority	A guitar chord using the root and 5th note (no 3rd)
3	Descant	A decorative higher pitched line	12	Chromatic	Using many notes from outside the key.
4	Counter melody	A new melody, combined with the theme	13	Fill	A short, improvised drum solo
5	Drone	Long held notes	14	Inversion	Turning a melodic idea or interval upside down
6	Chorus	A large group – usually the full company cast	15	Recitative	A vocal style that imitates the rhythms and accents of spoken language
			16	Syllabic	One note sung per syllable
7	Recitative	A vocal style that imitate the rhythms and accents of speech	17	Transposition	Moving a musical idea to a higher or lower key
8	Overture	An orchestral introduction to the show, which usually uses tunes from the show.	18	Tutti	An instruction that means everyone 15

Year 10 – Cycle 3 – Religious Studies – Issues of Relationships

1	Responsibilities [2]	Actions / duties you are expected to carry out, e.g. looking after family members			
2	Roles [2]	Position, status or function of a person in society, as well as the characteristics / behaviour expected of them			
3	Cohabitation [2]	To live together in a sexual relationship without being married			
4	Commitment [2]	A sense of dedication and obligation to someone or something			
5	Adultery [2]	Voluntary sexual intercourse between a married person and a person who is not their spouse			
6	Divorce [2]	To legally end a marriage			
7	Contraception [2]	Methods used to prevent a woman from becoming pregnant during or following sexual intercourse			
8	Gender equality [2]	People of all genders enjoying the same rights and opportunities in all aspects of their lives			
9	Chastity	Not having a sexual relationship until married			
10	Celibacy	When a person decides to never have a sexual relationship			
11	Natural moral law	An ethical theory by Thomas Aquinas which is based on five primary precepts			
12	Patriarchal	A family or society controlled by men			

Year 10 – Cycle 3 – Science – Biology Topic 4: Bioenergetics (Paper 1)

1	Uses of glucose in plants	Respiration, making cellulose for cell walls, making amino acids and making lipids or starch for energy storage
2	Limiting factor	A factor that affects the rate of photosynthesis when in short supply
3	Sodium hydrogen carbonate	Used to increase the amount of carbon dioxide dissolved in water when investigating photosynthesis
4	Uses of energy	Chemical reactions, movement, maintaining constant body temperature
5	Exercise	More muscle contraction, more energy needed and greater rate of respiration
6	Oxygen debt	The amount of oxygen needed to break down the lactic acid that has built up during anaerobic respiration
7	Metabolism	The rate of all the chemical reactions in a cell or the body 17

Year 10 – Cycle 3 – Science – Biology Topic 7: Ecology (Paper 2)

Α	Ecosystems and food chains	Ecosystems and food chains					
1	Population All the organisms of one species living in a habitat						
2 Community The populations		The populations of different species living in a habitat					
3	Ecosystem	The interaction of a community of living organisms with the non-living parts of the environment					
7	Interdependence	The dependence of species on other species for things such as food, shelter and seed dispersal					
8 Adaptation Feature or characteristics that organisms have to al		Feature or characteristics that organisms have to allow them to live in specific environmental conditions					
В	Distribution and human impacts						
1	Distribution	Where an organism is found, affected by environmental factors					
2	Quadrat	A square frame with a known area, used to measure number of organisms in a specific location					
3	Percentage cover	An estimate of the percentage area of a quadrat that is covered by a particular species of plant					
6 Biodiversity The variety of different species of organisms on Earth, or within an ecosyste		The variety of different species of organisms on Earth, or within an ecosystem					
7	Global warming	The gradual increase in the Earth's mean temperature due to increasing levels of greenhouse gases which act like an insulating layer					

Year 10 – Cycle 3 – Science – Chemistry Topic 4: Reactions (Paper 1)

A: Acid	A: Acids and alkalis					
1	Acid	A substance which forms H+ ions when aqueous, pH less than 7				
2	Alkali	A soluble base which forms OH- ions when aqueous, pH more than 7				
3	Base	An insoluble substance that neutralises an acid to make a salt and water				
B: Rea	B: Reactions of acids and salts					
1	Acids with metal oxides	Acid + metal oxide → salt + water				
2	Acids with metal hydroxides	Acid + metal hydroxide → salt + water				
3	Acids with metal carbonates	Acid + metal carbonate → salt + water + carbon dioxide				
4	Acids with metals	Metal + acid → salt + hydrogen				
C: Red	C: Redox and electrolysis					
1	Electrolysis	Splitting up an ionic compound using electricity, used to extract metals more reactive than carbon from their ores				

Year 10 – Cycle 3 – Triple Science – Chemistry Topics 9 & 10 – Atmosphere & Resources (Paper 2)

A: Clim	A: Climate change					
1	Greenhouse effect	When greenhouse gases absorb long-wave radiation, keeping it in the Earth's atmosphere				
2	Greenhouse gases	Carbon dioxide, methane and water vapour				
3	Carbon footprint The total amount of greenhouse gases produced over the lifecycle of a product					
B: Air p	B: Air pollution					
1	Global dimming Clouds of dust and soot reduce the sunlight that can reach the Earth					
C: Using	C: Using resources					
1	Life cycle assessment	An assessment of the impact of every stage of a product's life, including raw materials, manufacture, use and disposal				
2	Sterilisation	Kills microbes, e.g., using chlorine gas or UV light				
3	Desalination	Removing salt from seawater to make it potable, e.g., using reverse osmosis				
4	Sedimentation tank	Solids sink to produce sludge, leaving liquid effluent floating on top 20				

Year 10 – Cycle 3 – Science – Physics Topic 2: Electricity (Paper 1)

1	Current (Amps) The rate of flow of electric charge, measured using an ammeter connected in	
2	Potential difference (Volts)	Energy transferred per coulomb of charge, measured using a voltmeter connected in parallel
3 Ohm's law Current through a resistor at a constan potential difference across a resistor		Current through a resistor at a constant temperature is directly proportional to the potential difference across a resistor
4 LDR The resistance of a light dependent resistor decreases if light in		The resistance of a light dependent resistor decreases if light intensity increases
5	Thermistor	The resistance of a thermistor decreases if temperature increases
6	Series circuit rules	Potential difference is shared according to resistances, current is the same everywhere in the circuit
7	Parallel circuit rules	The potential difference across each component is the same, current is shared according to resistance
8	National Grid	A nationwide network of cables and transformers transferring electricity from power stations to homes

Year 10 – Cycle 3 – Science – Physics Topic 4: Atomic Structure & Radioactivity (Paper 1)

1	Random decay	We cannot predict which nuclei will decay and when a specific nucleus will decay
2	Activity	Number of unstable atoms that decay per second (measured in Becquerels)
3	Half-life	Average time it takes for half of the radioactive atoms in a sample to decay
4	Alpha particle	Made of two protons and two neutrons, with a charge of +2
5	Beta particle	Made of one electron, with a charge of -1
6	Penetrating power	How easily the type of radiation can pass through materials – the most penetrating is gamma
7	Irradiated	When an object is exposed to ionising radiation but does not become radioactive
8	Contaminated	When unwanted radioactive atoms get onto an object they release radiation and may cause harm

Year 10 – Cycle 3 – Triple Science – Physics Topic 5 – Forces (Paper 2)

1	Weight equation	Weight = mass x gravitational field strength
2	Work done equation	Work done = force x distance
3 Hooke's law equation Force = spring constant x extension		Force = spring constant x extension
4	4 Limit of proportionality The limit of force you can apply to an object for the extension to increase proportionally	
5	Acceleration equation Acceleration = Change in velocity Time taken	
6	Newton's first law	A resultant force is needed to change the velocity of an object
7	Newton's second law	The acceleration of an object is proportional to the resultant force on it and inversely proportional to its mass. Resultant force = mass x acceleration
8	Newton's third law	When two objects interact, the forces they exert on each other are equal and opposite
9	Momentum equation	Momentum = mass x velocity
10	Conservation of momentum	In a closed system, the total momentum before an event is the same as after the event 23

Year 10 – Cycle 3 – Spanish

A: Re	A: Relationships – Verb Structures			I am going to have children	voy a tener hijos		
1	I get on well with	me llevo bien con	20	I don't mind being single	me da igual estar soltero		
2	I get angry with	me enfado con	B: Hea	B: Health – Verb Structures			
3	I fight with	me peleo con	1	I am ill	estoy enfermo		
4	I argue with	discuto con	2	I am tired	estoy cansado		
5	We have a lot in common	tenemos mucho en común	3	I have broken	me he roto la pierna		
6	He/she gives me advice	me da consejos	4	My head hurts	me duele la cabeza		
7	He/she makes me laugh	me hace reír	5	I have cereal for breakfast	desayuno cereales		
8	He/she doesn't let me go out	no me deja salir	6	I have meat for dinner	ceno carne		
9	He/she listens to me	me escucha	7	I wake up	me despierto		
10	He/she knows me well	me conoce bien	8	I go to bed	me acuesto		
11	He/she supports me	me apoya	9	I am going to have dinner	voy a cenar		
12	He/she doesn't judge me	no me juzga	10	I am going to have	voy a tomar		
13	I am in favour of	estoy a favor de	11	I am going to order	voy a pedir		
14	I am against	estoy en contra de	12	The food is cold	la comida está fría		
15	I agree with	estoy de acuerdo con	17	I usually sleep 8 hours	suelo dormir ocho horas		
16	I want to get married	quiero casarme	18	I try not to put on weight	intento no engordar		
17	I have the intention to	tengo la intención de	19	I try to avoid stress	trato de evitar el estrés		
18	I hope to find love	espero encontrar amor	20	I know that it's important	24 sé que es importante		

Year 10 – Cycle 3 – BTEC Sport – Component 2

	rear 10 Cycle 3 Bill Sport Component 2						
A: Con	A: Components of physical fitness			C: Techniques, strategies and fitness required for sports			
1	Aerobic endurance	Ability to exercise at moderate intensity for extended periods of time	1	Skills	The experience needed to perform a sport or physical activity		
2	Muscular endurance	Contracting a muscle over a period of time against a light to moderate resistance	2	Tactics	Smaller specific steps taken to achieve the		
3	Muscular strength	The maximum force that can be generated by a muscle		ractics	overall aim		
4	Flexibility	The range of motion possible at the joints of the body	3	Strategy	Using tactics and decision-making to achieve a long-term or overall aim		
5	Body composition	The relative ratio of fat mass to fat-free mass (vital organs, muscle, bone)	4	Isolated practice	Repeating the routine until it becomes automatic without opponents		
B: Com	B: Components of skill-related fitness		D: Key officials and roles				
1	Power	Ability to perform strength-based movements quickly	1	Officials	Control how a sports match is played and administer the rules		
2	Agility	Ability to change body direction rapidly			and administer the rules		
3	Reaction time	Time taken to respond to an external stimulus	2	National governing	Organisations that regulate and oversee a sport at a national level		
4	Balance	Ability to control body position and not		bodies (NGBs)			
		fall over					

Year 10 – Cycle 3 – GCSE Sport Science – Component 1

A: Methods of training			C:	C: Performance enhancing drugs (PEDs)		
Α.	Training at a steady pace for a minimum of 30		1	Erythropoietin (EPO)	Helps increase red blood cell production and oxygen delivery to the muscles	
1	Continuous training	minutes	2	Human growth hormones	Helps increase muscle mass and therefore strength	
2	Circuit training	A combination of six or more exercises performed with short rest periods between them	3	(HGH) Blood doping	A process where performers have additional blood added to their bloodstream.	
3	Plyometrics	Training that develops explosive power and	D:	Injuries		
	,	strength	1	Torn cartilage	An injury at a joint where small tears appear in the cartilage	
4	Weight/ resistance training	Machines or free weights provide a load for the muscles to work against	2	Sprain	An injury at a joint where some of the fibres of the ligament are torn	
B: Principles of training		3	Tennis elbow	A joint injury where the tendons are inflamed, with pain felt on the <u>outside</u> of the elbow		
1	F.I.T.T	 Frequency – how often you train Intensity – how hard you train Time – how long you train for Type – what training method you use 	4	Golfer's elbow	A joint injury where the tendons are inflamed, with pain felt on the <u>inside</u> of the elbow	
2	Individual needs	Matching the training to the requirements	5	Strain	A stretch or tear in the muscle, also known as a pulled muscle	
		of the individual person	E: Cool down			
3	Specificity	Matching the training to the particular requirements of an activity	1	Light exercises	Exercises performed at a much lower intensity than you have just been working at	
4	Thresholds of training	To maximise the chance of fitness adaptations taking place, you should train within your target zone	2	Stretching	Longer stretches to the muscles you have just been using 26	