Hard work • Excellence • Integrity

2024-2025

Year 10 Cycle 3 100% Book

Tutor group:

Your 100% book and knowledge organisers

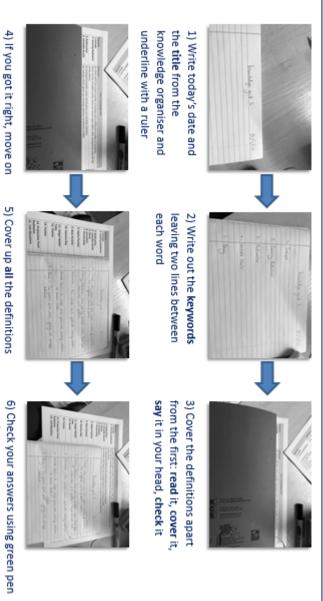
what you have learnt in lessons in order to remember this knowledge for the long-term. must know. This will help you recap, revisit and revise Knowledge organisers contain critical knowledge you

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

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.

С	orrecting your spelling, punctuation and grammar
<i>Sp</i> + underlined word	The underlined word is spelt incorrectly. Look, cover, write then check. Do this at least three times so you spell it correctly.
A circle around part of a word or a space	Your punctuation is incorrect, or something is missing (including capital letters).
?+ 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).
٨	A word is missing where the arrow is pointing.

Year 10 – Cycle 3 – Art – Project Time & Decay

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 – Business GCSE – Operations and HR

		•
Operations	s	
1	Job production	Production specific to requirements of individual customer.
2	Flow production	Mass production through continuous flow from one stage to the next.
3	Specialisation	Employee does specific, limited and repetitive tasks.
4	Just in time production (JIT)	A business holds as little to no stock, resources are ordered just in time to be used.
5	Just in case production (JIC)	A business holds stock just in case there is an issue with supply or demand.
6	Procurement	Selecting suppliers, establishing the payment terms and negotiating contracts.
7	Total Quality Management (том)	Everyone is focused on preventing errors occurring and ensuring quality at each stage.
8	Customer Service	Business activities focused on meeting customers' needs.
9	Post-Sales (after sales) Service	Meeting customer needs after they have purchased a good or service i.e. repair, replace.
Human Re	sources	
1	Span of control	Number of employees managed directly by another employee (line manager).
2	Delegation	Passing down of authority to more junior employees.
3	Delayering	Removal of one or more layers in the hierarchy of organisation's structure.
4	Retention	The proportion of the workforce that continue their employment.
5	External recruitment	Hiring someone from outside the business to fill a vacancy.
6	Person specification	States the qualifications and skills required by an employee to fulfil a role.
7	Productivity	Quantity of goods or services produced by an employee, per time-period.
8	Zero contract hours	Allows employers to hire staff without any guaranteed quantity of work.
	Job enrichment	Designing a job to give interesting and challenging tasks for motivation.

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 2 – Design & Technology

1	Synthetic polymers	Manmade 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	Shaping a thermoforming polymer by heating it and blowing it into shape
14	Vacuum forming	Shaping a 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 and suitable for CNC knife cutting
17	Anthropometrics	The practice of taking measurements of the human body and providing data that can be used by designers
18	Ergonomics	The relationship between people and the products they use

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
-		

Year 10 – Cycle 3 – Drama

A: Wri	tten 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		
			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: Ph	ysical descrip	otions		
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		

Year 10 – Cycle 3 – English – Shakespeare's *Macbeth*

A: V	Writer's methods		C: Q	uotations	
1	Imperative	A verb used to give a command or order	1	Captain: 'Unseamed him from the nave to	
2	Soliloquy	A speech where a character is alone and speaks their thoughts and feelings out loud		the chops'	
3	Aside	A comment by a character that is meant for the audience to hear, but no other characters	2	Macbeth: 'Stars, hide your fires, / Let not light see my black and deep desires'	
4	Paradox	A statement that contradicts itself			
5	Foreshadow	A warning or clue about a future event	3	Lady Macbeth: 'Look like the innocent	
6	Tragic hero	A great, virtuous character destined for a downfall or defeat		flower, but be the serpent under it'	
7	Hamartia	A fatal flaw or weakness	4	Macbeth: 'Is this a dagger which I see before	
B: C	ontext			me Come, let me clutch thee'	
1	Divine Right of Kings	The idea that a monarch is chosen by God, not the people		Macbeth: 'Will all great Neptune's ocean	
2	The Great Chain of Being	A Christian belief that all beings are ranked in a hierarchy, with God at the top, to maintain natural order	5	wash this blood / Clean from my hand?' Macbeth: 'O, full of scorpions is my mind,	
3	Ambition	Strong desire to achieve something	6	dear wife!'	
4	Unnatural	Going against natural laws; abnormal		The witches: 'Be bloody, bold/ none of	
5	Supernatural	Something above and beyond natural laws that cannot be explained	7	woman born shall harm Macbeth.'	
6	Blasphemy	An act against God		Lady Macbeth: 'Out, damned spot! out, I	
7	Hallucination	A vision or image that is not real	8	say!'	
8	Regicide	To kill a king or queen	9	Lady Macbeth: 'all the perfumes of Arabia	
9	Paranoia	Thinking and feeling like you are being threatened in some way, even if there is no evidence	9	will not sweeten this little hand.'	
10	Apparition	A ghostly figure	10	Malcolm: 'This dead butcher and his fiend like queen'	

Year 10 French – Cycle 3 – Foundation

le sac

la moitié

une salle d'attente

courir

marcher

améliorer

une maladie

pour mener une vie saine

pour être en bonne santé

pour garder la forme

arrêter

le corps

la vie

A: Routine

8

9

10

12

13

15

16

17

A recipe

It/them

Enough of

Ice cream

To choose

Included

A starter

Without

In the corner

Menu

To recommend

To feel/smell

se sentir

une recette

le/la/les

assez de

la glace

choisir

inclus

la carte

au coin

une entrée

recommander

21	Price	le pr	rix	
22	Choice	le ch	noix	
23	Вох	la bo	pite	
24	About	envii	ron	
25	Checkout/till	la ca	isse	
26	Change	la m	onnaie	
27	To drive	cond	duire	
28	To take away	emp	orter	
29	To lose	perd	Ire	
30	Product	prod	luit	
	Product Fresh		duit /fraiche	
30				
30	Fresh		/fraiche	
30 31 C: H	Fresh	frais,	/fraiche	
30 31 C: H	Fresh ealth Everything	frais,	/fraiche	
30 31 C: H 1	Fresh Everything To fall	frais,	/fraiche ber mal au/à la/aux	
30 31 C: H 1 2	Fresh Everything To fall My hurts	tout toml	/fraiche ber mal au/à la/aux	
30 31 C: H 1 2 3	Fresh Everything To fall My hurts Face	tout toml j'ai n le vis une	/fraiche ber mal au/à la/aux sage	
	21 22 23 24 25 26 27 28	22 Choice 23 Box 24 About 25 Checkout/till 26 Change 27 To drive 28 To take away	22 Choice le ch 23 Box la box 24 About envi 25 Checkout/till la ca 26 Change la m 27 To drive cond 28 To take away emp	22 Choice le choix 23 Box la boite 24 About environ 25 Checkout/till la caisse 26 Change la monnaie 27 To drive conduire 28 To take away emporter

8

9

10

11

13

14

15

16

17

Waiting room

To run

To walk

To stop

Illness

Body

To lead a healthy life

To be healthy

To stay in shape

To improve

Year 10 French – Cycle 3 – Higher

20

So much

To improve

To stop

Illness

Body

Life

To avoid

To be healthy

To stay in shape

12

13

15

16

Half

tant/tellement

la moitié

améliorer

une maladie

pour être en bonne santé

pour garder la forme

arrêter

le corps

la vie

éviter

A: Routine

11

12

13

14

15

16

17

Enough of

To welcome

The main dish

A drink

Menu

A starter

A glass

In the corner

Daily

quotidien

assez de

accueillir

la carte

une entrée

un verre

au coin

une boisson

le plat principal

2	To sit	s'asseoir	21	Price	le prix		
3	By being	en étant	22	Choice	le choix		
4	By having	en ayant	23	Вох	la boite		
5	To move	bouger	24	About	environ		
6	To get dressed	s'habiller	25	Checkout/till	la caisse		
7	To get up	se lever	26	Change	la monnaie		
8	After having done	après avoir fait	27	To drive	conduire		
9	After having gone	après être allé	28	To take away	emporter		
10	I put on	je mets	29	To lose	perdre		
11	Day	la journée	30	Diet	un régime		
12	Midnight	minuit	31	Available	disponible		
			C: Health				
B: Food	d		C: Hea	İth			
B: Food	d To taste	goûter	C: Hea	To injure oneself	se blesser		
		goûter aigre			se blesser la peau		
1	To taste		1	To injure oneself			
2	To taste Sour	aigre	1 2	To injure oneself Skin	la peau		
2 3	To taste Sour Tasty	aigre savoureux	2 3	To injure oneself Skin My hurts	la peau j'ai mal au/à la/aux		
1 2 3 4	To taste Sour Tasty I am hungry	aigre savoureux j'ai faim	1 2 3 4	To injure oneself Skin My hurts Face	la peau j'ai mal au/à la/aux le visage		
1 2 3 4 5	To taste Sour Tasty I am hungry I am thirsty	aigre savoureux j'ai faim j'ai soif	1 2 3 4 5	To injure oneself Skin My hurts Face Emergency	la peau j'ai mal au/à la/aux le visage une urgence		
1 2 3 4 5	To taste Sour Tasty I am hungry I am thirsty Dry	aigre savoureux j'ai faim j'ai soif sec	1 2 3 4 5	To injure oneself Skin My hurts Face Emergency An appointment	la peau j'ai mal au/à la/aux le visage une urgence un rendez-vous		
1 2 3 4 5 6	To taste Sour Tasty I am hungry I am thirsty Dry Pasta	aigre savoureux j'ai faim j'ai soif sec les pâtes	1 2 3 4 5 6	To injure oneself Skin My hurts Face Emergency An appointment Medicine/pill	la peau j'ai mal au/à la/aux le visage une urgence un rendez-vous un médicament		
1 2 3 4 5 6 7 8 8	To taste Sour Tasty I am hungry I am thirsty Dry Pasta A recipe	aigre savoureux j'ai faim j'ai soif sec les pâtes une recette	1 2 3 4 5 6 7	To injure oneself Skin My hurts Face Emergency An appointment Medicine/pill Waiting room	la peau j'ai mal au/à la/aux le visage une urgence un rendez-vous un médicament une salle d'attente		

Year 10 – French – Key Structures

J: Connectives

A. Opinion pinases		D. FOSITIVE TEASONS - present tense			vegative Aujectives			J. Connectives				
1	I believe that	je crois que	1	It makes me	ça me fait rire	1	Boring	mc	onotone	1	Given than	Étant donné que
2	I would say that	je dirais que	_	laugh	,	2	Annoying	pé	nible	2	Despite the fact that	malgré le fait que
3	I think that	je pense que	2	It relaxes me	ça me détend	3	Unpleasant	dés	sagréable	3	On the contrary	au contraire
		je pense que	3	It pleases me	ça me plait	4	Annoying		ervant	4	On the one hand	d'un côté
4	According to me	selon moi	4	It helps me to relax	ça m'aide à me reposer	5				5	On the other hand	de l'autre côté
5	In my opinion	quant à moi		It helps me to	ça m'aide à tout	İ	Ridiculous	-	ridicule		Therefore	du coup
6	Frankly	franchement	5	forget everything	oublier	6	Awful		reux	7	So	donc
B: Ne	egative opinions			everything	ça vaut la peine	7	Worrying	inc	quiétant	8	Due to	à cause de
1	It gets on my	ca m'énerve	6	It's worth doing	de faire	8	Tiring	fat	igant	9	In fact	en fait
_	nerves	3	7	I have fun	je m'amuse	H: In	finitive structures			10	Since, because	puisque
2	I'm fed up with	j'en ai marre de	E: N	egative reasons – p	resent tense	1	I want		je veux	K: Sn	nall but important words	
	I have some	i'ai des soucis	1	It makes	ça me fait peur	2	I hope		j'espère	1	Even	même
3	worries regarding	par rapport à		me scared		3	I want		j'ai envie de	2	If	si
4	What scares	ce qui me fait	2	It's not worth it	ça ne vaut pas la peine	4	I would like		j'aimerais	3	Except	sauf
4	me	peur	3	It worries me	ça m'inquiète	5	I have the intention	of	j'ai l'intention de	4	Without	sans
5	What worries me is	ce qui m'inquiète est	5	I get bored	je m'ennuie	6	I feel like		ça me dit de	5	Especially	surtout
		je ne supporte	6	It tires me	ça me fatigue	7	I need		i'ai besoin de	6	Everywhere	partout
6	I can't stand	pas	7	It irritates me	ça m'embête				j ai besoili de	7	The majority	la plupart
7	I can't stand	j'ai horreur de	F: Po	ositive adjectives		I: Ne	egatives			8	Instead of	au lieu de
C: Po	ositive opinions		1	Marvellous	merveilleux		I don't do		je ne fais pas	9	Few / not many	peu
1	I quite like	j'aime bien	2	Wonderful	formidable	2	I no-longer do		je ne fais plus	L: Tin	ne phrases	
2	I'm a fan of	je suis fan de	3	Unbelievable	incroyable	3	I don't do anything		je ne fais rien	1	This evening	ce soir
3	I am passionate	je suis passionné	4	Entertaining	divertissant	4	I only do		je ne fais que	2	Usually	d'habitude
,	about	par	5	Fascinating	fascinant	5	I never do		je ne fais jamais	3	Sometimes	parfois
4	What I like the	ce que j'aime le	6	Exciting	passionnant	6	There isn't any		il n 'y a aucun	4	Two years ago	il y a deux ans
	most is	plus est				7	There isn't anyhody	,	il n'y a nersonne	_	The second decident	la la mala marka

There isn't anybody

It is not yet

7

8

inoubliable

agréable

Unforgettable

Pleasant

ce que j'adore

est

5

What I love is

il n'y a personne

Ce n'est pas encore

5

6

The next day

Always

le lendemain

toujours

G: Negative Adjectives

D: Positive reasons – present tense

A: Opinion phrases

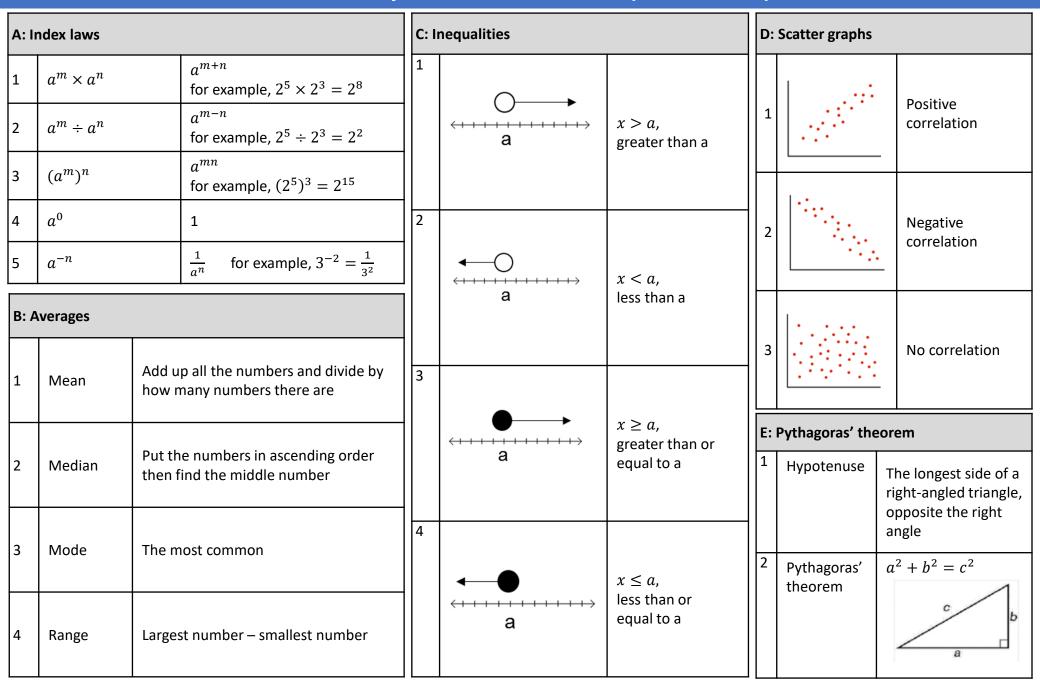
Year 10 – Cycle 3 – Geography

A: Weather Hazards & Climate Change			B: Fieldwork		
1	Coriolis effect	Wind being deflected north and south from the equator due to the spinning of the Earth	1	River discharge	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 area or people
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

Year 10 – Cycle 3 – History: Germany

Impa	ct of World War One on the Wein	nar 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: Proportion			B: Surds			D: Trigonometry						
1	y = kx	y is directly proportional to x	2	$\sqrt{a} \times \sqrt{b}$ $\sqrt{a} \times \sqrt{a}$ \boxed{a}	$ \sqrt{a \times b} $ $ a $ $ \sqrt{a} $	1	sin x		= Opposi Hypoten		SH	7
2	$y = kx^2$	y is directly proportional to the square of x	3 C:	$\sqrt{\frac{a}{b}}$ Scatter graphs	$\frac{\sqrt{a}}{\sqrt{b}}$	2	cosx		= Adjace Hypoten		A C H	
3	$y = k\sqrt{x}$	y is directly proportional to the square root of x	1		Positive correlation	3	tan x		= Opposite Adjacen		T A	
						E: E	xact Values				<u> </u>	
	$y = \frac{k}{x}$,	14.	Negative	1	x	0 °	30°	45°	60°	90°
4	y h	y is inversely proportional to x	2	100%	correlation	-	sin x	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
	<i>O x</i>	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	y is inversely proportional to the square of x	3		No correlation		х	0 °	30°	45°	60°	90°
	0 **					3	tan x	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	Undefined

Year 10 – Cycle 3 – Religious Studies – Issues of relationships & good and evil

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	Celibacy	When a person decides to never have a sexual relationship
10	Morality [2 marks]	Principles and standards determining which actions are right or wrong
11	Good [2]	That which is considered morally right, beneficial and to our advantage
12	Evil [2]	That which is considered extremely immoral, wicked and wrong
13	Free Will [2]	The ability to make choices voluntarily or independently
14	Justice [2]	Fairness; where everyone has equal provisions and opportunity
15	Punishment [2]	A penalty given to someone for a crime or wrong they have done
16	Sin [2]	Deliberate immoral action, breaking a religious or moral law
17	Suffering [2]	Pain or distress caused by injury, illness or loss
18	Forgiveness [2]	To grant pardon for a wrongdoing

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

A: Acids	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	A substance that neutralises an acid to make a salt and water			
B: React	tions 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: Redo	x 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 – 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 – Science – Biology Topic 7- Ecology (Paper 2)

Α	Ecosystems and food chains	
1	Population	All the organisms of one species living in a habitat
2	Community	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 allow them to live in specific environmental conditions

В	Distribution and human impact	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 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 8 – Chemical Analysis (Paper 2)

Mixtures						
7	Formulation	A useful mixture made with a purpose – e.g. paint.				
	Chromatography					
8	Chromatography	Used to separate substances in a mixture – e.g. pigments in ink.				

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
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

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

A: Clima	te 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 po	llution	
1	Global dimming	Clouds of dust and soot reduce the sunlight that can reach the Earth
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

Year 10 – Cycle 3 – BTEC Sport – Component 2

		<u> </u>		<u> </u>			
A: Con	nponents 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		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		,,,,,,,,	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 The relative ratio of fat mass to fat-free (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			
		Ability to control body position and not		bodies (NGBs)	a sport at a national level		
4	Balance	fall over					

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

A: Methods of training			C :	C: Performance enhancing drugs (PEDs)					
	Training at a steady nace for a minimum of 30			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.				
		Training that develops explosive power and	D: Injuries						
3	Plyometrics	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	• <u>Frequency</u> – how often you train • <u>Intensity</u> – how hard you train • <u>Time</u> – how long you train for	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	• <u>Type</u> – what training method you use 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				

Y10 Spanish - Key Structures F + H			В	Estructuras con Infiniti	ive Infinitive Structures	D	Verbos Communes Common Verbs		F	Palabras Pequeñas Small but Important Words	
А	Verbos Importantes Imp	portant Verbs	1	To have just	acabar de + inf	1	To do	hacer	1	More and more	cada vez más
1	To say	decir	2	It is necessary	hay que + inf	2	I do	hago	2	Less and less	cada vez menos
2	To give	dar	3	To have to	tener que + inf	3	You do	haces	3	Unless	a no ser que
3	To arrive	llegar	4	To start	empezar a + inf	4	They do	hacen .	4	Even	incluso
4	To start / begin	empezar	5	We should	deberíamos + inf	6	To have	tener	5	Instead of	en lugar de / en vez de
5	To realise	darse cuenta de	6	To learn to	aprender a + inf	7	He / she / it has	tengo	6	Despite	a pesar de
6	To enjoy	disfrutar	7	Before/After + verb	antes de / Después de + inf	8	They have	tienen	7	Neither / nor	tampoco
7	To get / catch	coger	8	To try	tratar de + inf	9	То до	ir	8	Still / yet	todavía
8	To know	saber	9	I hope	espero + inf	10	I go / I'm going	voy	9	If	si
9	To learn	aprender	10	I want	quiero + inf	11	You go	vas	10	Already	
10	To teach	enseñar	11	To stop	dejar de + inf	12	They go	van	11	Without	sin
11	To need	necesitar	12	To be able to	poder + inf	E	Palabras Pequeñas Sm	all but Important Words			
12	To return	volver	13	You must	se debe + inf	1	to have been + -ing +	Desde hace (present	12	Almost	casi
13	To continue / follow	seguir	14	You can	se puede + inf		for + time	tense)	13	Nobody	nadie
14	To want / to love		15	I want	tengo ganas de + inf	2	On/on top of/about	Sobre	14	Little/ no	poco
		querer				3	Mainly/above all	Sobre todo	15	The same	el mismo/ lo mismo
15	To hear	oir	С	Preguntas Question		4	Almost/nearly*	Casi*	16	Too / too much	demasiado
16	To look	mirar	1	What	qué	5	Never ever	jamás	17	Whereas / while	mientras que
17	To come	venir	2	When	cuándo	6	To stop/quit + verb	Dejar de + inf	18	Less	menos
18	To open	abrir	3	How	cómo	7	At lest	Al menos	19	More	más
19	To go down	bajar	4	Which	cuál	8	Due to	Debido a	20	Apart from	aparte de
20	To fall	caer	5	Where	dónde	9	So much	Tanto	21	Every	cada
21	To enter/to go in	entrar	6	Who	quién	10	Except for	Salvo*	22	Neither nor	ni ni
22	To start/to begin	comenzar	7	Why	por qué	11	That's why	Por eso	23	However	en cambio/no obstante
23	To sit	sentarse	8	How much	cuánto	12	Too much	demasiado	24	Quite	bastante
24	To record	grabar	9	How many	cuántos	13	Against	(en) Contra	25	No longer	ya no
25	To shout/scream	gritar		At what time	a qué hora	14	So, so much	Tan/tanto	26		· ·
			10	At what time	a que nora	15	At least	Al menos	1 20	No / not any/ not a	ningún

Year 10 Spanish – Cycle 3 – Foundation

A: My heath and my routine				B: Youth	n problems and future actions	
1	Health	la salud		1	Age	edad
2	Healthy	sano/saludable		2	Risk	riesgo
3	Take-away food	comida para llevar		3	Face to face	cara a cara
4	Balanced	equilibrado/a		4	To turn off, shut down	apagar
5	It/they hurt (me)	me duele/n		5	Profile	perfil
6	heart	el corazón		6	way	forma
7	body	el cuerpo		7	To know	saber
8	I am ill	estoy enfermo/a		8	classmate, colleague	compañero
9	I am tired	estoy cansado/a		9	To follow	seguir
10	I am hungry	tengo hambre		10	To take/carry/wear	llevar
11	I am thirsty	tengo sed		11	To sell	vender
12	To be careful	tener cuidado		12	Danger	peligro
13	To be sleepy	tener sueño		13	Peer pressure	presión de grupo
14	To be scared	tener miedo		14	To improve	mejorar
15	To be hot/cold	tener calor/frío		15	To meet up	quedar
16	To be lucky	tener suerte		16	To stay	quedarse
17	I feel well/ awful	me siento bien/fatal		17	Outdoors	al aire libre
18	To return	volver		18	To hope/wait	esperar
19	To bathe	bañarse		19	People	la gente
20	To change/ to get changed	cambiar/cambiarse		20	To spend time	pasar tiempo
21	To fall	caerse		21	A beloved person	un ser querido
22	To burn (yourself)	quemar (se)		22	To finish	terminar
23	Midday	mediodía (m)		23	Work/job	trabajo
24	Midnight	medianoche		24	The rest of the people/others	los demás
25	Late	tarde	1	25	street	calle
26	Early	temprano			place	lugar
27	Loss/waste	pérdida		27	neighbourhood	barrio
28	pocket	bolsillo		28	half	mitad

Year 10 Spanish – Cycle 3 – Higher

A: My l	heath and my routine		ſ	B: Youth	B: Youth problems and future actions			
1	Health	la salud	ſ	1	Age	edad		
2	Healthy	sano/saludable	ſ	2	Risk	riesgo		
3	Take-away food	comida para llevar	ſ	3	Face to face	cara a cara		
4	Food	Alimento	ſ	4	To turn off, shut down	apagar		
5	Balanced	equilibrado/a	ſ	5	Profile	perfil		
6	It/they hurt (me)	me duele/n	ſ	6	way	forma		
7	I am ill	estoy enfermo	ſ	7	To know	saber		
8	I am hungry	tengo hambre	ſ	8	classmate, colleague	compañero		
9	I am thirsty	tengo sed		9	To follow	seguir		
10	To remember	acordarse (de)*		10	To take/carry/wear	llevar		
11	To go to bed	acostarse*		11	To sell	vender		
12	to sense/to feel/to regret	sentir; sentirse *		12	Except for	salvo *		
13	To change/ to get changed	cambiar/cambiarse	ſ	13	To attend	asistir *		
14	to ensure	asegurarse de*	ſ	14	To improve	mejorar		
15	to maintain, keep	mantener(se)*		15	To meet up	quedar		
16	to allow (oneself)	permitir(se)*		16	To stay	quedarse		
17	Midday	mediodía (m)	ſ	17	Outdoors	al aire libre		
18	Midnight	medianoche	ſ	18	To hope/wait	esperar		
19	Late	tarde	ſ	19	People	la gente		
20	Early	temprano	ſ	20	To spend time	pasar tiempo		
21	Advice	consejo*	ſ	21	A beloved person	un ser querido		
22	Youth	juventud *	ſ	22	To finish	terminar		
23	Threat	amenaza*	ſ	23	Work/job	trabajo		
24	Behaviour	comportamiento*	ſ	24	The rest of the people/others	los demás		
25	Loss/waste	pérdida	ſ	25	Survey	encuesta*		
26	To develop	desarrollar	ſ	26	place	lugar		
27	A lot/ a pile	un montón*	ſ	27	neighbourhood	barrio		
28	Pocket	bolsillo	ſ	28	half	mitad		