Hard work • Excellence • Integrity

2024-2025

Year 10 Cycle 2 100% Book

Tutor group:

Your 100% book and knowledge organisers

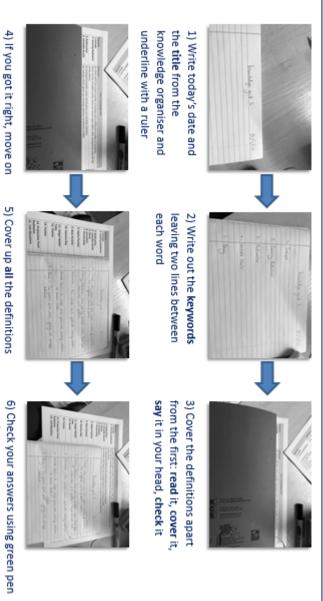
what you have learnt in lessons in order to remember this knowledge for the long-term. must know. This will help you recap, revisit and revise Knowledge organisers contain critical knowledge you

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	Correcting your spelling, punctuation and grammar				
Sp + underlined word 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).				
^	A word is missing where the arrow is pointing.				

Year 10 – Cycle 2 – Art – Still Life

1	Chiaroscuro	A technique that uses light and shadow to create a strong contrast and give the illusion of volume and depth
2	Composition	The arrangement of visual elements within a piece of art, which guides the viewer's eye and influences the overall impact of the artwork.
3	Manipulation	The process of using digital tools, such as Adobe Photoshop, to alter or enhance photographic or scanned images.
4	Glazing	A painting technique involving the application of a transparent layer of paint over another, fully dried layer, which adds depth and richness of color.
5	Impasto	A technique where paint is applied thickly to a surface, so that brush or palette knife marks are visible, adding texture and dimension.
6	Layering	The process of building up multiple layers of material, such as paint or mixed media, on a canvas or other surface to create depth and complexity.
7	Masking fluid	A liquid latex used in watercolor painting to cover areas that the artist wishes to keep white; it is removed once the paint has dried.
8	Monochromatic	Using only one colour but in different values and intensities to create a cohesive and harmonious effect.
9	Negative space	The empty space around and between the subjects of an image, which can help to define the boundaries of positive space and enhance the composition.
10	Palette	A range of colors or materials used in an artwork; also refers to the physical board on which artists hold and mix paint.
11	Perspective	A technique used to represent three-dimensional objects on a two-dimensional surface in a way that looks natural and realistic.
12	Stippling	A technique of painting or drawing using small dots or marks to build up shading and texture.
13	Still life	Artwork depicting mostly inanimate subject matter, typically commonplace objects which are either natural (food, flowers, plants, rocks) or man-made.
14	Texture	The perceived surface quality of a work of art, expressed through the physical feel of the material or the visual appearance of brush strokes, layering, or other techniques.
15	Thumbnail sketch	A quick, small sketch that captures the basic layout and composition of an artwork before detailed work begins.
16	Tonal value	The lightness or darkness of a color, which helps to convey depth and volume within an artwork.
17	Wet-on-wet	A watercolor technique where paint is applied onto a wet surface, resulting in colors flowing into one another and creating soft, blurred edges.

Year 10 – Cycle 2 – GCSE Business – Influences

1	Internal (organic) growth	When a business gets bigger by selling more products					
2	External (inorganic) growth	When a business gets bigger by joining other businesses					
3	Merger	When two or more businesses join together to form a new business					
4	Takeover	When one business buys control of another					
5	Horizontal integration	When one firm joins another at the same stage of the production process					
6	Vertical integration	When businesses join at different stages of the production process					
7	Diversification	When a business takes over a business in a totally different sector					
8	Consumers	Individuals who buy goods and services from businesses					
9	Economic climate	Describes key performance factors within an economy					
10	Interest rates	The cost of borrowing money					
11	Employment	The number of people working in an economy					
12	Unemployment	The number of people that are able and willing to work that can't find a job					
13	Consumer spending	The value of goods and services bought buy consumers over a period of time					
14	Globalisation	When the world is more interconnected through communication, transport and technology					
15	International trade	Selling of goods and services internationally					
16	Exports	When goods and services produced by a business in one country are sold in foreign countries					
17	Legislation	A set of laws that govern the way a society operates					
18	Competition	Exits when more than one business is attempting to attract the same customers					

Year 10 – Cycle 2 – Citizenship

1	Rights	Privileges and freedoms that we should all have
2	Responsibility	A duty we are required to follow
3	Human rights	Freedoms all humans should have simply because they are human
4	Discrimination	Treating a person or group unfairly because of, for example, their gender, race or age
5	International Criminal Court	A court that examines evidence against someone accused of war crimes
6	Anarchy	A total breakdown in society where there is no form of government
7	Barrister	Specialists in law used to represent clients in court
8	Chief constable	Chief police officer within each regional police force
9	Judiciary	System of judges and other legal officials responsible for enforcing the law
10	Magna Carta	Established the rights and powers of the king and the people of England
11	Civil law	Law that deals with disputes between individuals or groups
12	Criminal law	Law which punishes individuals who break the law
13	Common Law	Law based on court decisions by judges over the years
14	Legislation	A law passed by Parliament
15	Magistrates	Part-time community of volunteers that make decisions in Magistrates' Courts
16	Jury service	A duty where 12 random local citizens make a decision in a legal case
17	Tribunal	A court of justice that settles certain types of dispute
18	Trade union	An organisation that represents the rights of workers

Year 10 – Cycle 2 – Drama

A: Devising		B: Theatre methods					
1	Devising	Creating your own piece of theatre					
2	Stimulus	Starting point for a piece of work					
3	Genre	Type of dramatic work, e.g., a comedy					
4	Style	Manner in which a piece is performed, e.g., physical style	1	Paper Birds Theatre Company	A contemporary theatre company formed in 2003 that creates devised work with a		
5	Theme	An idea or topic that runs throughout the show			political agenda.		
6	Genre	The type and style of story being told					
7	Structure	The order in which the story takes place					
8	Theatre company	A group of actors and crew who create theatre					
9	Practitioner	A highly skilled person who influences a piece of theatre		Stanislavsky	An acting technique developed by Stanislavski to help actors to create realistic character		
10	Linear	When a play's structure is in time order (beginning, middle, end)	2				
11	Episodic	When a play's structure jumps forwards and backwards in time order					
12	Verbatim theatre	Style of theatre that takes words and stories from real life scenarios					
13	Physical theatre	Style of theatre that uses the body and movement to communicate		Frantic Assembly theatre company	Approaching devising as a series of tasks, each broken down into building blocks.		
14	Epic theatre	Style of theatre that wants to distance the audience from emotional connection and make them think about political or social issues	3				
15	Naturalistic theatre	Style of theatre that is true to real life emotions and actions					

Year 10 – Cycle 1 – Design & Technology

1	Design brief	A statement describing what you are designing or solving
2	Specification	Design requirements that must be met
3	Ideation	Creating design ideas or solutions
4	User mapping	Visualising the end-to-end user experience
5	Pain points	Areas where a user has experienced difficulty
6	Target market	The most likely customers of a product
7	Prototype	A physical model used to present your final design
8	LCA (Life Cycle Assessment)	A technique to assess environmental impacts at all stages of a product's life
9	Sustainable design	Design that reduces environmental impacts
10	Inclusive design	A design that considers usage to ensure as many people as possible can access it
11	Rapid prototyping	Techniques used to build a scale model of a physical part using 3D CAD, e.g. 3D printing
12	CAD (Computer Aided Design)	Digital software used to create 2D and 3D models and drawings
13	CAM (Computer Aided Manufacture)	The use of software and computer-controlled machinery for manufacture
14	Production line	A set of tasks that come one after the other and result in an identical product
15	Mass production	When the same product is manufactured many times on an assembly line.
16	Batch production	One group of identical products is made at the same time, before moving onto producing the next group
17	Varnish	A shiny coat usually applied to wood to make it more durable
18	Built-in obsolescence	Designing a product with a limited useful life or a purposely weak design

Year 10 – Cycle 2 – Design & Technology

1	Synthetic polymers	etic polymers				
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 2 – English – Shakespeare's Macbeth

real 10 - Cycle 2 - Eligiisii - Silakespeale's Mucbetii							
A: Wı	A: Writer's methods			C: Quotations			
1	Imperative	A verb used to give a command or order		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 flower, but be the serpent under it'			
6	Tragic hero	A great, virtuous character destined for a downfall or defeat		Machatha lis this a daggar which I soo			
7	Hamartia	A fatal flaw or weakness	4	Macbeth: 'Is this a dagger which I see before me Come, let me clutch thee'			
B: Co	ntext			Macbeth: 'Will all great Neptune's ocean wash this blood / Clean from my hand?'			
1	Divine Right of Kings	The idea that a monarch is chosen by God, not the people	5				
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	6	Macbeth: 'O, full of scorpions is my mind, dear wife!'			
3	Ambition	Strong desire to achieve something		The witches: 'Be bloody, bold/ none of			
4	Unnatural	Going against natural laws; abnormal	7	woman born shall harm Macbeth.'			
5	Supernatural	Something above and beyond natural laws that cannot be explained	8	Lady Macbeth: 'Out, damned spot! out, I			
6	Blasphemy	An act against God		say!'			
7	Hallucination	A vision or image that is not real	9	Lady Macbeth: 'all the perfumes of Arabia will not sweeten this little hand.'			
8	Regicide	To kill a king or queen		This not sweeten this little hand.			
9	Paranoia	Thinking and feeling like you are being threatened in some way, even if there is no evidence	10	Malcolm: 'This dead butcher and his fiend like queen'			
10	Apparition	A ghostly figure					

Year 10 – Cycle 2 – Geography

A: Changing Landscapes		B: Changing Cities			
1	Fetch	Distance the wind pushes the waves	1	Urban areas	Built-up areas like towns and cities
2	Prevailing wind	Main wind direction	2	Urbanisation	Increase in proportion of people living in towns and cities
3	Destructive waves	High-energy waves that remove beach material	3	Rural areas	Countryside with few homes and low population density
4	Constructive waves	Low-energy waves that build up beach material	4	Industrialisation	Shift towards an economy based on manufacturing
5	Coastal recession	Retreat of the coast due to erosion	5	Natural increase	Birth rates are higher than death rates so population goes up
6	Transpiration	Evaporation of water from vegetation	6	Site	Physical characteristics of a place
7	Surface run-off	Flow of water along the surface of the land	7	Situation	Location of a settlement in relation to other settlements and features
8	Infiltration	Filtering of water through soil	8	Suburbs	An area of low-density, semi-detached housing away from the city centre
9	Percolation	Filtering of water through rock	9	Rural-urban fringe	The edge of the city with out-of-town shopping centres and green spaces

Year 10 – Cycle 2 – History – Elizabethan England

A: Elizabethan government			10	Royal injunctions	Instructions given to the clergy from the monarch
1	Patronage	A system used by the monarch to reward loyalty	E: The	Catholic Threat	monarch
2	Factions	Rival groups with different political interests	11	Recusants	Catholics who refused to attend Church of England services
3	JPs (Justices of the peace)	Members of the gentry who enforced law and order in each county	12	Excommunication	Exclusion from the protection of the
B: Lifes	styles of the rich and po	por			Catholic Church and entry to heaven
		An unemployed and homeless person	F: The	Spanish Armada	_
4	Vagrant	that travelled the country in search of work	13	Privateers	Sailors that had permission from the monarch to capture goods from enemy
		Poor people who were viewed as being			ships
5	Impotent poor	genuinely unable to work and deserving of charity	14	Beacon	a fire or light set up in a high position as a
C: Pop	ular entertainment			Beacon	warning or signal
6	Theatre companies	Groups of actors who were supported	G: The Puritan Threat		
	<u> </u>	financially by wealthy noblemen	15	Puritan	Protestant sect that promoted a pure
7	The pit	Area where the poor would stand in a theatre and watch a play	13	Funtan	interpretation of the Bible
D: The Religious Settlement		16	Presbyterians	Puritans that wanted to replace bishops with local elders	
8	Religious settlement / Middle Way	Changes introduced by Elizabeth to provide a religious compromise between Protestants and Catholics	17	Prophesyings	Gatherings of Puritans to discuss the Bible and Puritan beliefs
9	Church of England	The official name given to Protestantism in England	18	Separatists	Extreme Puritans who wanted to break away from the Church of England

Year 10 – Cycle 2 – Maths (Foundation)

A: Sequences			C: Probability				
1	Arithmetic or linear		ar Has a constant difference between each		Probability	Number of successful outcomes Total number of possible outcomes	
	sequence		term	2	P(A)	Probability of event A	
				3	P(not A) or P(A')	1-P(A)	
	nth term of arithr	metic	. ,	4	Predicted number of outcomes	Probability × number of trials	
2	sequence		an + b	5	If A and B are independent P(A and B)	$P(A) \times P(B)$	
3	Fibonacci sequen	Ce	To find the next term, add the previous two terms together, for example	6	If A and B are mutually exclusive P(A or B)	P(A) + P(B)	
	Tiboliacei sequeni	CC	1, 1, 2, 3, 5, 8, 13, 21	7	Experimental probability	Frequency of event	
						Total number of trials	
		A sequence made by multiplying by the		D: Venn diagrams			
4	Geometric seque	nce	same value each time	1	$A \cap B$	A intersect B	
B: Pe	B: Percentages					A and B	
1	Multiplier for increase of $n\%$	100 +	n, then divide by 100		$A \cup B$	A union D	
2	Multiplier for decrease of $n\%$	100 –	n, then divide by 100	2		A union B A or B	
3	Percentage change	New –	Original yinal		A'		
4	Compound growth and decay		$mount = Starting amount \times multiplier^n$ n is a unit of time	3		Complement of A Not A	

Year 10 – Cycle 2 – Maths (Higher)

A: Se	equences		C:	Probability				
1	Arithmetic or linear sequence	Has a constant difference between each term	1	Probability	Number of successful outcomes Total number of possible outcomes			
	nth term of		2	P(A)	Probability of event A			
2	arithmetic sequence	= an + b	3	P(not A) or P(A')	1-P(A)			
		To find the next term, add the previous two	4	Predicted number of outcomes	Probability × number of trials			
3	Fibonacci sequence	·		If A and B are independent P(A and B)	$P(A) \times P(B)$			
4	Geometric sequence	A sequence made by multiplying by the same value each time	6	If A and B are mutually exclusive P(A or B)	P(A) + P(B)			
_		$an^2 + bn + c$, where the first difference is		D: Venn diagrams				
5	Quadratic sequence	not equal, but the second difference is equal		$A \cap B$				
B: Pe	ercentages				A intersect B A and B			
1	Multiplier for increase of n%	100 + <i>n</i> , then divide by 100						
2	Multiplier for decrease of $n\%$	100 - n, then divide by 100	2	$A \cup B$	A union B A or B			
3	Percentage change	$\frac{\text{New -Original}}{\text{Original}} \times 100$						
	5.1011BC			A'				
4	Compound growth and decay	Final amount $=$ starting amount \times multiplie r^n where n is a unit of time	3		Complement of A Not A			

Year 10 French – Cycle 2 – Foundation

Family	Family and relationships			To say	dire
1	Best	meilleur	29	Game	jeu
2	Better	mieux	30	Tiring	fatigant
3	Worse	pire	31	To depend on	dépendre de
4	Lessthan	moinsque	32	To try to	essayer de
5	Morethan	plusque	33	Student	élève
6	Нарру	heureux/heureuse	34	I used to have	j'avais
7	Crazy	fou/folle	35	I used to be	j′étais
8	Hardworking	travailleur/travailleuse	36	I miss him/her	
9	To wear	porter		·	il/elle me manque
10	Glasses	les lunettes	37	To remember, recall, remind	se rappeler
11	Tie	une cravate	38	Dead	mort
12	A son/a daughter	un fils/une fille	39	5 years ago	il y a cinq ans
13	Young	jeune	40	To cut, switch off	couper
	Old	vieux/vieille	41	To work	travailler
14	I know	je connais	42	Right	droit
15	I get on	je m'entends	43	Unfair	injuste
16	I see	je vois	44	To treat	traiter
17	To rest	se reposer	45	To hope	espèrer
18	To be called	s'appeler	46	Someone	quelqu'un
19	To have fun	s'amuser	47	Well-paid	bien-payé
20	When	quand	48	Some people say that	certains disent que
21	To drink	boire	49	To have the right to	avoir le droit de
22	To believe	croire	50		
23	To leave	partir		Money	argent
24	To take	prendre	51	without	sans
25	To receive	recevoir	52	To stay	rester
26	To open	ouvrir	53	Thanks to	grâce à
27	To be able to	pouvoir	54	Neighbour	voisin

Year 10 French – Cycle 2 – Higher

Eam!!	, and relationshins		30	To act	agir.
	y and relationships		29	To act	agir
1	Best	meilleur	30	To avoid to	éviter de
2	Better	mieux	31	To threaten	menacer
3	Worse	pire	32	To try to	essayer de
4	Lessthan	moinsque	33	After having done	après avoir fait
5	Morethan	plusque	34	To remember	se souvenir
6	Loyal	fidèle			j'avais
7	Proud	fier/fière	35	I used to have	
8	Hardworking	travailleur/travailleuse	36	I used to be	j'étais
9	Twins	jumeaux	37	I miss him/her	il/elle me manque
10	Glasses	les lunettes	38	To remember, recall, remind	se rappeler
11	Tie	une cravate	39	To keep	garder
12	A son/a daughter	un fils/une fille	40	The home	le foyer
13	Medium sized	de taille moyenne	41	Right	droit
14	I know	je connais	42	When I am	quand je serai
15	I get on	je m'entends	43	When I have	quand j'aurai
16	I see	je vois			
17	To tell	raconter	44	Someone	quelqu'un
18	To reply on	se fier à	45	As far as I'm concerned	en ce qui me concerne
19	To show concern for	se soucier	46	It seems to me that	il me semble que
20	To fear	se sentir	47	It's better	il vaut mieux
21	Similar	pareil/pareille	48	Some people say that	certains disent que
22	I have just done	je viens de faire	49	To have the right to	avoir le droit de
23	To leave	partir	50	without	sans
24	To take	prendre	51	Previously, before, formerly	auparavant
25	To receive	recevoir		· · · · · · · · · · · · · · · · · · ·	· .
26	To open	ouvrir	52	When	lorsque
27	To be able to	pouvoir	53	Thanks to	grâce à
28	To say	dire	54	Neighbour	voisin

Year 10 – French – Key Structures

J: Connectives

A. Opinion pinases		D. Fositive reasons – present tense			G. 14	G. Negative Adjectives				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	-	icule	6	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	H: Infinitive structures			10	Since, because	puisque	
2	I'm fed up with	j'en ai marre de	E: N	egative reasons – p	resent tense	1	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	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	I have the intention of		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			6	Everywhere	partout	
6	I can't stand	pas	7	It irritates me	ça m'embête				j'ai besoin de		The majority	la plupart	
7	I can't stand	j'ai horreur de	F: Po	ositive adjectives		I: Ne	I: Negatives			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	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 Spanish – Cycle 2 – Foundation

A: Spo	orts and free time		C: N	lusic and entertainment	
1	To have hobbies	tener pasatiempos	1	Happiness	alegría
2	To watch a film	ver una película	2	The end/ending	el final
3	To buy clothes	comprar ropa	3	The song	la canción
4	Disability	Discapacidad	4	The singer	el/la cantante
5	A team	un equipo	5	The lyrics	la letra
6	Fight	la lucha	6	A show	un espectáculo
7	A wheelchair	una silla de ruedas	7	The News	las noticias
8	To read	leer revistas	8	A horror film	una película de terror
9	A fan	un aficionado	9	It is fashionable	está de moda
			D: F	amily and relationships	
10	A young person	un/una jóven	1	To know/to meet	conocer
11	An entry ticket	una entrada	2	To recognize/to admit	reconocer
12	To stay at home	Quedarse en casa	3	Role model	modelo de conducta
B: Ted	chnology		4	To argue	discutir
1	To turn off the computer	apagar el ordenador	5	To get on well/badly	llevarse bien/mal
2	To download an application	bajar una aplicación	6	It is worth it	vale la pena
3	To charge the phone	cargar el móvil	7	Our	nuestro/a
4	A web page	una página web	8	Confidence/ trust	confianza
5	A watch/clock	un reloj	9	Nice/ pleasant	agradable
		,	10	Affection	cariño
6	To upload a photo	subir una foto	11	Together	juntos/as
7	To create an account	crear una cuenta	12	To have been +ing + for	desde hace (+ present)
8	Safety/security	seguridad	13	To laugh	reír (se)
9	To help	ayudar	14	To ask for forgiveness	pedir perdón

Year 10 Spanish – Cycle 2 – Higher

alegría

la letra de la canción

el/la cantante
un espectáculo
las noticias
tardar

decepcionante
escenario
sonido
cadena
temporada
cobrar

la película se trata de

modelo de conducta

yo en tu lugar/ yo que tú

decepcionante
contestar
guardar
falta (de)
lleno/a (de)

está de moda

reconocer

apoyar conseguir cuidar juntarse

A. Sno	rts and free time		i	C: Music
_	To have hobbies	tonor pasatiomnos		1
1		tener pasatiempos	 r	2
2	Disability	discapacidad	3	
3	A team	un equipo	4	
4	Fight	la lucha	5	
5	A wheelchair	una silla de ruedas	6	
6	A fan	un aficionado	7	
7	A young person	un/una jóven	8	
8	An entry ticket	una entrada	9	
9	To stay at home	quedarse en casa	10	
10	To walk	andar / caminar	11	
11	To jump	saltar	12	
12	To catch/take	coger	13	
	nnology	1	14	
1	To turn off the computer	anagar el ordonador	15	
	· ·	apagar el ordenador	 D: Fami	
2	To download an application	bajar una aplicación	1	
3	To charge the phone	cargar el móvil	2	
4	To post on a web page	colgar en una página web	3	
5	A watch/clock	un reloj	4	
6	To create an account	crear una cuenta	5	
7	To record / film a video	grabar un video	6	
8	Headphones, earbuds	auriculares	7	
9	A search	una búsqueda	8	
10	Behaviour	comportamiento	9	
		<u> </u>	10	
11	To take advantage of, to make the most of	aprovechar .	11	
12	To dare	atreverse	12	
13	The best / worst thing	lo mejor/peor	13	

Year 10 – Spanish – Key Structures – Higher and Foundation

A: Verbos Importantes Important Verbs		B: Estructuras con Infinitive Infinitive Structures			D: Verbos Communes Common Verbs				F: Palabras Pequeñas Small but Important Words			
1	To say	decir	1	To have just	acaba	ar de + inf	1	To do	hacer	1	More and more	cada vez más
2	To give	dar	2	It is necessary	hay qı	ue + inf	2	I do	hago	2	Less and less	cada vez menos
3	To arrive	llegar	3	To have to	tener	que + inf	3	They do	hacen	3	Unless	a no ser que
4	To start / begin	empezar	4	To start	empe	zar a + inf	4	You do	haces	4	Even	incluso
5	To realise	darse cuenta	5	We should	deber	ríamos + inf	5	To have	tener	5	Instead of	en lugar de / en
	TO Tealise	de	6	To learn to	apren	nder a + inf	6	I have	tengo	_		vez de
6	To enjoy	disfrutar	7	Before/After +	1	de / Después de +	7	He / she / it has	tiene	6	Despite	a pesar de
7	To get / catch	coger		verb	inf		8	They have	tienen	7	Neither / nor	tampoco
8	To know	saber	8	To try	tratar	de + inf	9	To be*	ser*	8	Still / yet	todavía
9	To learn	aprender	9	I hope	esper	o + inf	10	lam	soy	9	If	si
10	To teach	enseñar	10	I want	quiero	o + inf	11	He / she / it is	es	10	Already	ya
11	To need	necesitar	11	To stop	dejar	de + inf	12	They are	son	11	Without	sin
12	To return	volver	12	To be able to	poder	r + inf	13	To be*	estar*	12	Almost	casi
	To continue /		13	You must	se del	be + inf	14	I am	estoy	13	Nobody	nadie
13	follow	seguir	14	You can	se pu	ede + inf	15	He / she / it is	está	14	Little/ no	росо
14	To want / to love	querer	15	I want	tengo	ganas de + inf	16	They are	están	15	The same	el mismo
15	To hear	oir	C: Pre	eguntas Question W	Vords		17	То до	ir	16	Too / too much	demasiado
16	To look	mirar	1	What		qué	18	I go / I'm going	voy	17	Whereas / while	mientras que
17	To come	venir	2	When		cuándo	19	You go	vas	18	Less	nenos
18	To open	abrir	3	How		cómo	20	They go	van	19	More	nás
19	To go down	bajar	4	Which		cuál			os in the Past	20	Apart from	aparte de
20	To fall	caer	5	Where		dónde			fui	21	Every	cada
21	To enter / to go in	entrar	6	Who		quién	1	I went		22	Neither nor	ni ni
22	To start/to begin	comenzar	7	Why		por qué	2	He / she / it was	fue	23	However	en cambio/no
			-	,	- '	•	3	He / she / it was	era			obstante
23	To sit	sentarse	8	How much		cuánto	4	There was / there were	había	24	Quite	bastante
24	To record	grabar	9	How many		cuántos	5	He / she / it had	tenía	25	No longer	ya no

To shout / scream

gritar

10

At what time

a qué hora

I saw / I watched

No/not any/not a

ningún

Year 10 – Cycle 2 – GCSE Sport Science

A: Te	A: Terminology							
1	Health	A state of complete emotional, physical and social wellbeing and not merely the absence of disease						
2	Fitness	The ability to meet the demands of the environment						
3	Exercise	A form of physical activity to maintain or improve health and/or physical fitness. It is not competitive sport						
4	Performance	How well a task is completed						
5	PARQ	Physical Activity Readiness Questionnaire						

	Thysical results a questioninal e						
B: P	B: Principles of training						
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 					
2	Individual needs	Matching the training to the requirements of the individual					
3	Reversibility	Any changes that take place will be reversed when you stop training					
4	Specificity	Matching the training to the requirements of an activity					
5	Thresholds of training	To maximise the chance of fitness adaptations taking place, train within your target zone					
6	Overtraining	Too much training, which can lead to injury and prevent improvement					
7	Progressive overload	Making training steadily harder to gradually improve fitness					

C: Co	mponents of fitness	
1	Muscular endurance	The ability to use voluntary muscles repeatedly without getting tired
2	Muscular strength	The amount of force a muscle can generate when it contracts to overcome resistance
3	Body composition	The ratio of fat to fat free mass, e.g. vital organs, muscle, bone
4	Flexibility	The range of movement possible at a joint
5	Cardiovascular fitness	The ability to exercise the body for long periods of time without getting tired
6	Speed	How quickly a movement can be performed or a distance can be covered
7	Balance	The ability to maintain centre of mass over a base of support
8	Coordination	The ability to use two or more body parts at the same time
9	Power	Strength × speed
10	Agility	How quickly you can change the position of your body while keeping it under control
11	Reaction time	The time it takes to respond to a stimulus

Year 10 – Cycle 2 – Religious Studies – Beliefs and Practices (Islam & Christianity)

1	Tawhid [2]	The belief in the oneness of God
2	Prophethood / Risalah [2]	Messengers of God, beginning with Adam and ending with Prophet Muhammad
3	Angels / Malaikah	The belief in angels of Islam, e.g. Jibril, Israfil, Mika'il
4	Halal [2]	Anything which is permitted in Islam, e.g. eating permitted foods
5	Haram [2]	Anything which is forbidden in Islam, e.g. eating forbidden foods
6	Jihad [2]	To strive or struggle – there are two forms of jihad: greater and lesser
7	Mosque [2]	A place of prostration for Muslims, a communal place of worship
8	Shari'ah [2]	The straight path; Shari'ah Law is the set of moral and religious principles set out by the Qur'an and Hadith
9	Ummah [2]	Worldwide Muslim community who share a common religious identity
10	Trinity [2]	The three persons of God: Father, Son and Holy Spirit
11	Incarnation [2]	God becoming human in the form of Jesus
12	Atonement [2]	The belief that Jesus' death on the cross healed the rift between humans and God
13	Resurrection [2]	The belief that Jesus rose from the dead on Easter Sunday, conquering death
14	Liturgical worship	When worship follows a set structure or pattern
15	Salvation	Saving from sin and its consequences
16	Sacraments	An outward sign of an invisible blessing from God
17	Evangelism [2]	Preaching the gospel to others to convert them to Christianity

Biolo	Biology Topic 3: Diseases and Infections (Paper 1)						
1	Salmonella	Caught by eating food that contains bacteria; symptoms are fever, stomach cramps and vomiting					
2	Measles	A virus that spreads in the droplets released when a person coughs or sneezes, causes fever and a red rash					
3	HIV	A virus that spreads through unprotected sex and drug use, attacks the immune system, leading to AIDS, treated with antiretroviral drugs					
4	Malaria	Caused by a protist, which is spread by mosquitoes, causes potentially fatal fever					
5	Immune	If infected by the same pathogen again, the body quickly produces antibodies to kill the pathogen before it makes you ill					
6	Preclinical trials	Drugs are tested on human cells and animals in the lab to check if they are toxic					
7	Phase 1 clinical trials	Test low doses on healthy volunteers to check for side effects					
8	Phase 2 clinical trials	Test on patients with the disease, comparing the effect of a placebo versus the drug					

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			

Chei	Chemistry Topic 2: Structure and Bonding (Paper 1)					
1	High melting points in ionic compounds	This is because a large amount of energy is needed to break the strong electrostatic attraction between the ions				
2	lonic compounds conducting electricity	Ionic compounds conduct electricity when melted or dissolved in water, because the ions are free to move to carry a current				
3	Low melting points in small molecule covalent compounds	This is because little energy is needed to overcome the weak intermolecular forces between the molecules				
4	Diamond	Each carbon atom covalently bonded to four others; hard, very high melting point, does not conduct electricity				
5	Structure of graphite	Each carbon atom covalently bonded to three others and forms layers of hexagonal rings				
6	Properties of graphite Weak forces between the layers, allowing to slide over each other and has delocal electrons, which allow it to conduct electrons.					
7	Metallic bonding	Rows of positive metal ions, surrounded by delocalised electrons which move through the structure				
8	Properties of alloys	Harder than pure metals as different sized atoms distort the layers of atoms preventing the layers from sliding				

Chemistry Topics 3 & 5: Calculations and Energy Change (Paper 1))					
1	Endothermic reaction	A reaction that takes in energy from the surroundings; temperature decreases			
2	Exothermic reaction	A reaction that transfers energy to the surroundings, temperature increases			
3	Activation energy	The minimum amount of energy that particles must have to react			
4	Conservation of mass	Atoms can never be created or destroyed; the total mass of reactants always equals the total mass of products			
5	Uncertainty of a measuring instrument	Plus or minus (±) half the smallest scale division; for a thermometer with a mark at every 1.0°C, the uncertainty is ± 0.5°C			
6	Concentration	The mass of a substance in a volume of solution, measured in g/dm ³			
7	Calculating concentration	mass of solute (g) volume of solvent (dm³)			

Chemistry Topic 4: Reactions (Paper 1)				Physics Topic 2: Electricity (Paper 1)			
1	Acid	A substance which forms H+ ions when aqueous, pH of 0-6		1	Current (Amps)	The rate of flow of electric charge, measured using an ammeter connected in series	
2	Alkali	A soluble base which forms OH- ions when aqueous, pH of 8-14		2	Potential difference (Volts)	Energy transferred per coulomb of charge, measured using a voltmeter connected in parallel	
3	Base	An insoluble substance that neutralises an acid to make a salt and water	_		Ohm's law	Current through a resistor at a constant temperature is directly proportional to the potential difference across a resistor	
4	Acids with metal oxides	Acid + metal oxide → salt + water		3			
5	Acids with metal hydroxides	Acid + metal hydroxide → salt + water		4	LDR	The resistance of a light dependent resistor decreases if light intensity increases	
	Acids with metal carbonates	Acid + metal carbonate → salt + water + carbon dioxide		5	Thermistor	The resistance of a thermistor decreases if temperature increases	
6				6	Series circuit rules	Potential difference is shared according to resistances, current is the same everywhere in the circuit	
7	Acids with metals	Metal + acid → salt + hydrogen		7	Parallel circuit	The potential difference across each component is the same, current is shared according to	
8	Electrolysis	Splitting up an ionic compound using electricity, used to extract metals more reactive than carbon from their ores		8	National Grid	A nationwide network of cables and transformers transferring electricity from power stations to homes	

Physics Topic 4: Atomic Structure & Radioactivity (Paper 1)			Physics Topic 5: Forces (Paper 2)			
1	Random decay	We cannot predict which nuclei will decay and when a specific nucleus will decay	1	Weight equation	Weight = mass × gravitational field strength	
2	Activity	Number of unstable atoms that decay per second (measured in Becquerels)	2	Work done equation	Work done = force × distance	
3	Half-life	Average time it takes for half of the radioactive atoms in a sample to decay	3	Hooke's law equation	Force = spring constant × extension	
4	Alpha particle	Made of two protons and two neutrons, with a charge of +2	5	Acceleratio n equation	Acceleration = Change in velocity Time taken	
5	Beta particle	Made of one electron, with a charge of -1	6	Newton's first law	A resultant force is needed to change the velocity of an object	
6	Penetrating power	How easily the type of radiation can pass through materials – the most penetrating is gamma	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 × acceleration	
7	Irradiated	When an object is exposed to ionising radiation but does not become radioactive	8	Newton's third law	When two objects interact, the forces they exert on each other are equal and opposite	
8	Contaminated	When unwanted radioactive atoms get onto an object they release radiation and may cause harm		Conservatio n of momentum	In a closed system, the total momentum before an event is the same as after the event	

Year 10 – Cycle 2 – BTEC Sport – Component 1

A: Terminology			B: Body systems			
1	Sport	Competitive activities that involve physical exertion, have rules and regulations and a National Governing Body	1	Cardiorespiratory system	The heart and blood vessels which work with the respiratory system	
2	National Governing Bodies (NGBs)	Organisations that oversee a sport's rules within a country	2	Musculoskeletal system	The muscular and skeletal systems working together, including the bones, muscles, tendons and ligaments	
3	Outdoor activities	Activities that are carried out outdoors or in recreational areas that are adventurous	3	Thermoregulation	Regulating your own body temperature	
4	Provision	Providing an opportunity to take part in something	4	Pliability	How flexible something is, like your muscles	
5	Sector	A group of people connected by what they do	5	Erector spinae	A group of muscles that are attached to the length of the spine, from the base of the skull to the hips	
6	Barrier	Something that prevents you from carrying out a task	6	Ligaments	Join bone to bone	
7	Pulse raiser	An activity that increases the pulse rate	7	Tendons	Join muscles to bone	
8	Mobilise	Move the main joints of the body such as knees, hips, shoulders, ankles and wrists	8	Cardiac muscle	A muscle that is unconsciously controlled where we don't have to think to make it contract	
9	Stretching	Loosening of the muscles to prepare the body for exercise	9	Voluntary muscle	Muscles under our conscious control and we move them when we want to	