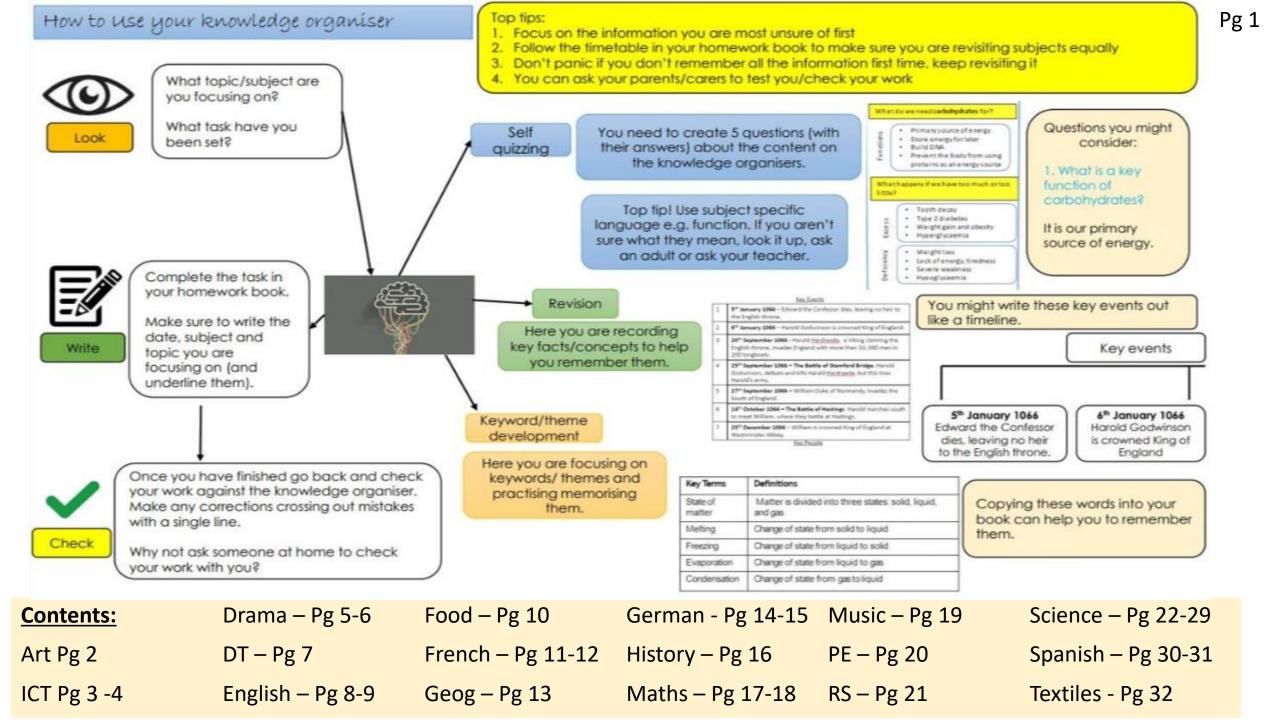


Week A
Week B
Week A
Week B
Week A

Complete your homework on the night stated e.g. if it is a Monday week A you will complete DT and English homework.

Knowledge Organisers 2021-22 Year 9 – Term 5

	Week A	Week B
Monday	English/DT	Science/MFL
Tuesday	Maths/Drama	ICT/PE
Wednesday	Science	English
Thursday	RS/Music	Geography/Art
Friday	History	Maths



Year 9 Present Project

In this SOW we will investigate:

- · Architecture, and how it can be used to create artwork
- Famous architecture of the past, present and future, in our city, country and around the world
- A diverse range of artists, craftspeople & designers and explore these artists and the concepts within their work.
- · Explore and experiment with a range of materials,

techniques and processes to create a final outcome consisting of mixed media collage and drawing of a street scene

Term 5

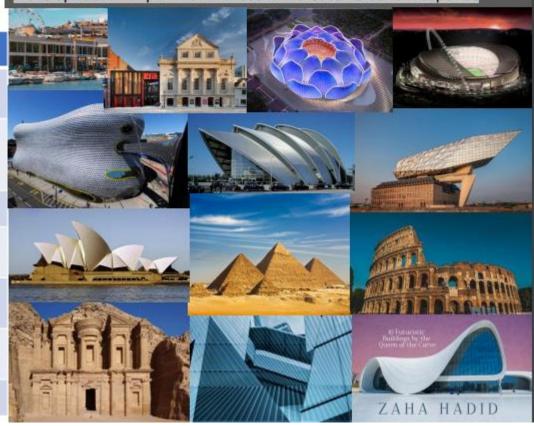
What GCSEs do I need to be an architect? A lot of people ask the question "What GSCSs do I need to be an architect?" The truthis, entry requirements are different for each degree course. You usually need a portfolio of your drawings and photographs. Universities are not too prescriptive a bout what A-levels you need, but often look for a mixture of arts/humanities and maths/science subjects. A-levels in maths and subjects like art or and design will help.

WHAT DO ARCHITECTS DO?

Architects use their technical and creative skill to design structures that suit the requirements of their clients

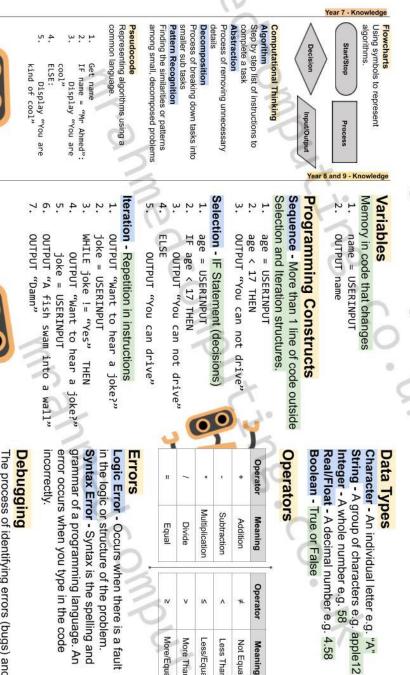
As an architect, you'll design new buildings or extensions or alterations to existing structures and advise on the restoration and conservation of old properties. You may work on individual buildings or on large redevelopment schemes, and your responsibility can extend to the design of the surrounding landscape and spaces. Working closely with clients and users, you'll make sure that projected designs match requirements and are functional, safe and economical, and in some cases highly innovative. You'll usually control a project from start to finish and work with a number of construction professionals, including surveyors and engineers.

Develop Ideas – Experiment – Record – Create Personal Response



Key word	Definition
Photomontage	Cutting, gluing, rearranging and overlapping two or more photographs into a new image.
Lino print	A form of block printing that involves carving a pattern or design into a linoleum, rubber or vinyl surface that can then be printed from.
Focal point	The centre of interest or activity.
Engineering	The branch of science and technology concerned with the design, building, and use of engines, machines, and structures.
Mixed media	A term used to describe artworks composed from a combination of different media or materials
Collage	A piece of art made by sticking various different materials such as photographs and pieces of paper or fabric on to a backing.
Architecture	The art or practice of designing and constructing buildings.

Year ဖ I. Programming



Meaning Operator Addition ≠ Subtraction < Multiplication ≤ Divide >
Operator ∨ v ∧ ⊀

Errors

Logic Error - Occurs when there is a fault in the logic or structure of the problem. Syntax Error - Syntax is the spelling and grammar of a programming language. An error occurs when you type in the code incorrectly.

Debugging

fixing them The process of identifying errors (bugs) and

Year 9 н. Networks

trong Passwords revents unauthorised access to a computer /stem. A strong password contains: Upperca-/sters, Lowercase letters, Numbers, Symbols, ciers , 8 or Year 9 - Knowledge

Year 7 and 8 - Knowledge

Saving Files It is important to regularly save file: do not lose your work.

< so that you

- ð sa work
- save a file? Save in your documents Save with a relevant file name Saved in an appropriate folder structure Save the file in a folder that is relevant to

- the
- Save and Save
- Save "updates a file "Save As" creates and file

file

another version of the

Networks cted together that share data and

resources. Cloud Storage Cloud computing through the Inter storage that you can acces

ing is

- be accessed from anywhere unlimited storage space and
- ate more local storage
- lows you to bood form of
- Does not requ storage sive hardware
- 1 1 1 1 be get hacked third party
- an be expensive term

Networks Types

together that share data and resources Two or more computers connected

LAN (Local Area Network)

Network in a small geographical area Example: Small Office, School WAN (Wide Area Network) Network in a large geographical area

Example: The Internet WPAN (Personal Area Network) Network centred around a single user Example: Bluetooth Headset, Hotspot

Advantages of Networks:

Share hardware Sharing files is easier

+

- Updates are central (printers)
- + + User stored centrally accounts can be

Disadvantages of Network: Set up could be

- expensive
- Vulnerable to hacking
- Need specific hardware Might need a network
- manager

Bluetooth

mrahmedcomputing.co.uk

- Short range wireless connection Very common connection type and Low power usage ow bandwidth and Short
- Wired and Wireless range

Wired Networks

wires. Computers connected together using

Fast connection

+

- More secure than wireless Set up could be expensive Wires are trip hazards
- Difficult to connect new

devices

Computers connected together using Wireless Networks

wireless connections (Wi-Fi) Freedom to move around

+

- Connection ess secure can be
- interrupted by walls and other electronic devices

Cyber Security Malware - Any hostil

Any hostile or intrusive

- softwares
 Hacking People that gain unauthorised Prevention access to a computer Passwords, Antivirus
- Firewall
- Encryption

'ear 9 I. Computer Systems

Strong Passwords Prevents unauthorised access to a computer system. A strong password contains: *Uppercase* letters, Lowercase letters, Numbers, Symbols, 8 or Year 8 and 9 - Knowled **Networks Types**

together that share data and Two or more computers connected

Year 7 - Knowledge

nore charact saving Files

octers

portant to regularly save files/work so that you

resources

Example: Small Office, Schu WAN (Wide Area Network) Network in a small geographical area LAN (Local Area Network) School

Network in a large geographical area

Example: The Internet WPAN (Personal Area Network) Network centred around a single user Example: Bluetooth Headset,

Save

"Save As

"Save" updates a file "Save As" creates another version of the

A W N

Save in your documents Save with a relevant file name Saved in an appropriate folder structure Save the file in a folder that is relevant to

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Networks

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data

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Advantages Hotspot of Networks: Sharing files is easier

+ (printers) Share hardware

Conve resources. Cloud Storage Cloud computing is s through the Internet Files can

storage that you can acce

- Updates are central
- + + User accounts can be
- **Disadvantages of Network:** stored centrally

Does not re

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- Set up could be
- expensive Vulnerable to hacking
- Need specific hardware Might need a network
- manager

Bluetooth

mrahmedcomputing.co.uk

Short range wireless connection Very common connection

+

range type and Low power usage Low bandwidth and Short

Wired and Wireless

Wired Networks

wires. Computers connected together using

More secure than wireless Set up could be expensive Wires are trip hazards Difficult to connect new Fast connection

- V+

0

Wireless Networks

+ Freedom to move around Computers connected together using

- ess secure
- Connection can be interrupted by walls and other electronic devices

Cyber Security

softwares Malware -Any hostile or intrusive

access Hacking - People that gain unauthorised Prevention to a computer tion - Passwords, Antivirus

Encryption Firewall,

'ear ~ 68 Data Representation

Number Bases 128 64 32 16 8 4

N

ASCII and Unicode

ASCII

TABLE

ting.co.uk

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62 10

characters in binary

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	01010101	Base 2 Numbers -	Binary	Base 10 Numbers - 23. 5	Denary	
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number When and extra bit is created to represent a OVERFLOW ERROR

Image

Storage Units

size you use, the higher the The more bits of Binary file

\$	←	Bit		
+1000	-	Byte	\rightarrow	X8
+1000	-	Kilobyte	\rightarrow	x1000
+1000	-	Megabyte	->	x1000
+1000	-	Gigabyte	-	x1000
		Terabyte	->	x1000

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ASCII 7 bit ASCII used to represent 128 Only enough for English language Unicode

Created to extend binary values for other languages using 16 bit numbers. This allows for 65,536 characters to be

			-	-	10-	_		encoded
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	н	z	Ш	11	.11	Ш	S	ed.
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>	0		0		0	0	2	~
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>	-		0	-	0	0		
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•	0		4	-	32	×		
144071	(2554)		bytes	8	bits	4		

Representing Images

Resolution - Amount of pixels on an Pixel - Small dot on of colour on an image

Factors that affect the quality and file Colour/Bit Depth - Amount of bits in each pixel (amounts of colours available

means the quality will improve. It also means the file size will increase. Working out file size: size: Increasing resolution and colour depth

File size (bits) = Resolution x Bit Depth

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_			_	0 0	6	8	8	8	4	4	
				8 6	8		8		4	8	8

Cotton Bright colours Pressed and ironed Practical Apron Cashmere Dark colours Clean / pristine Comfortable Cardigan, jumper Wool Dull / worn colour Dirty Formal Skirt, trousers, dress Silk Mix-match Worn Tight and fitting Top, Tohirt, blouse, shirt vest top Felt Matching Distressed Short sleeve Trainers / daps Polyester Colours for labour work Rips and holes Long sleeve Pencil skirt and blouse Velvet Colours that show wealth and status Dropped stitches Flowing (unrestricting) Flowing dress Tweed Shiny Tight and fitting Short heels / high heels Short heels / high heels Fraying edges Long / short Untucked Short heels / high heels	A. Material	B. Colour	C. Condition	D. Fit / style	E. Fashion / purpose
Wool Dull / worn colour Dirty Formal Skirt, trousers, dress Silk Mix-match Worn Tight and fitting Top, Tshirt, blouse, shirty vest top Felt Matching Distressed Short sleeve Trainers / daps Polyester Colours for labour work Rips and holes Long sleeve Pencil skirt and blouse Denim Colours that show wealth and status Dropped stitches Flowing (unrestricting) Flowing dress Velvet Shiny Tight and fitting Short heels / high heels Tweed Shiny Tight and fitting Short heels / high heels Fath work Revealing (above knees / cleavage) Short heels / high heels	Cotton	Bright colours	Pressed and ironed	Practical	Apron
Silk Mix-match Worn Tight and fitting Top, Tshirt, blouse, shirvest top Felt Matching Distressed Short sleeve Trainers / daps Polyester Colours for labour work Rips and holes Long sleeve Pencil skirt and blouse Denim Colours that show wealth and status Dropped stitches Flowing (unrestricting) Flowing dress Velvet Hems dropping Baggy and loose Blazer / jacket Tweed Shiny Tight and fitting Short heels / high heels Fach work Revealing (above knees / cleavage) Shiny shoes					
Felt Matching Distressed Short sleeve rest top Polyester Colours for labour work Rips and holes Long sleeve Pencil skirt and blouse Denim Colours that show wealth and status Dropped stitches Flowing (unrestricting) Flowing dress Velvet Hems dropping Baggy and loose Blazer / jacket Tweed Shiny Tight and fitting Short heels / high heels Patch work Revealing (above knees / cleavage) Shiny shoes					
Polyester Colours for labour work Rips and holes Long sleeve Pencil skirt and blouse Denim Colours that show wealth and status Dropped stitches Flowing (unrestricting) Flowing dress Velvet Hems dropping Baggy and loose Blazer / jacket Tweed Shiny Tight and fitting Short heels / high heels Patch work Revealing (above knees / cleavage) Shiny shoes					vest top
Velvet Hems dropping Baggy and loose Blazer / jacket Tweed Shiny Tight and fitting Short heels / high heels Patch work Revealing (above knees / cleavage) Shiny shoes Fraying edges	Polyester	Colours for labour work	Rips and holes	Long sleeve	
Tweed Shiny Tight and fitting Short heels / high heels / high heels / high heels / cleavage) Shiny shoes					Flowing dress
Patch work Revealing (above knees / cleavage) Shiny shoes Fraying edges					
Scuffed	9			Long / short	Untucked
	Year 9 Dr	rama	Costume		
Year 9 Drama Costume	F. Headwear	G. Hair H. Fo	otwear I. Acce	ssories J. Jewellery	K. Makeup

0	I am designing a costum	a for (character)		
0		• •		Castura
0	X is (social class) in th	ne time era of (d	lecade)	Costume
0	X's hair would be	Column G	(describe)	
0	X makeup would be	Column K	(describe how markings would be	created))
0	X would wear	Column E&C	(list the items she would wear in a	column E)
0	The fit / style would be	. Column D	(describe each item)	
0	The materials would be	. Column A&C	(describe materials for each item)	
0	The colours would be	Column B	(describe colours for each item)	
0	X footwear would be	Column H&C	(describe)	
0	X accessories would be	Column I&C	(describe)	
0	X jewellery would be	Column J&C	(describe)	

Keywords to use when designing sound

Sound

Sound

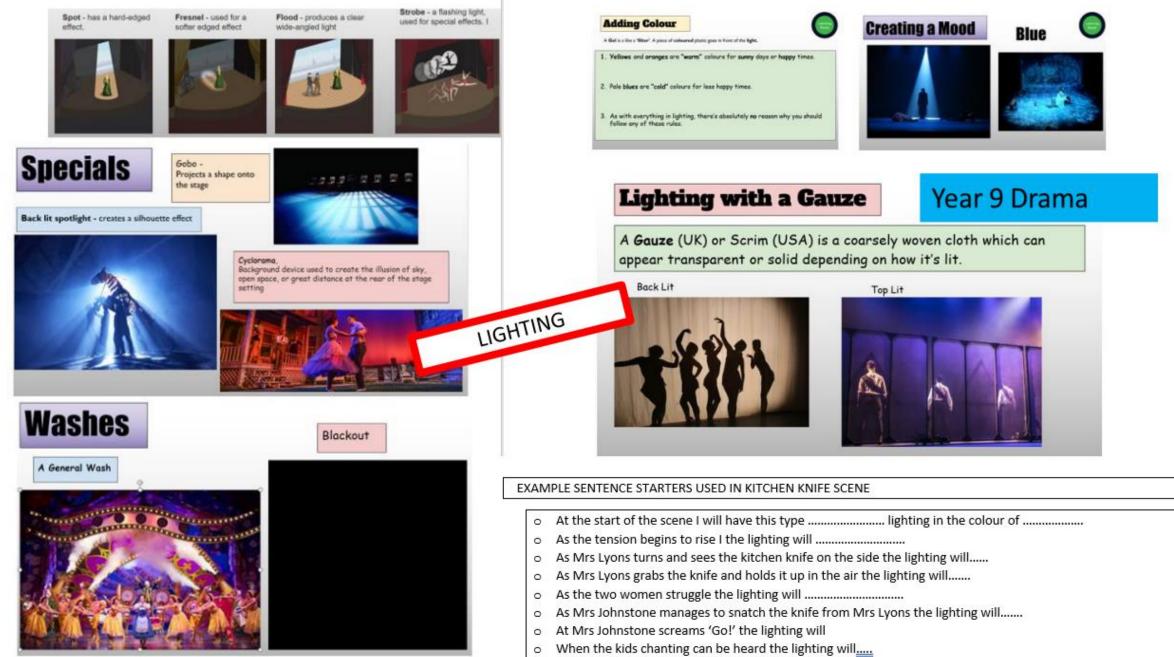
	0	Diegetic (can be heard by actors)
	0	Non -diegetic (cannot be heard by actors)
	0	Underscore (to accompany the action) this can be live or pre-recorded
	0	Instruments (strings, woodwind, brass, percussion, keyboards)
1	0	Live music, synthesized music, recorded music, instrumental music
	0	Atmosphere, mood (i.e. tense, calm, dramatic, cheerful)
	0	ambience, dramatic, tense, so
	0	Rhythm, pace
	0	Sound effect (live, pre-recorded)
	0	Volume, amplified

o Music era (what year is the scene set in? What music was current at that time)

EXAMPLE SENTENCE STARTERS FOR THE BUS SCENE

- A piece of 1970's music like could be played at the start when everyone gets on the bus to create a
 atmosphere
- o As the bus pulls away the sound effect I will play is
- o When Sammy starts arguing with the conductor I will play.....
- o When Sammy pulls out the knife the mood will change to
- When the knife is pulled, the non-diegetic sound (cannot be heard by actors) of the underscore music will include these instruments......
- o The volume of the will be amplified when
- o The pace and rhythm of the music will be
- o I will also have a pulsating heart beat non-diegetic sound effect playing when
- o The diegetic sound of the ringing bus bell (can be heard by actors) would be played when
- o When the bus stops I would have the diegetic sound effect of playing

Drama



Year 9 D&T – Term 1 – Pewter Project



Select one symbol from the selection above.

Create a logo for a product/company of your choice using your chosen symbol.

You can achieve this by modifying your chosen symbol by applying a range of composition techniques to develop its shape, form, and visual appeal. Be as creative as possible.

Logo design principles

- Simple needs to be easily identifiable at a glance.
- Memorable should be easily recalled after just one look.
- Original Create a unique design that cannot be confused with another.
- Timeless should be modern yet timeless and should avoid trends.
- 5. Versatile - can be used in a variety of sizes and colours.
- Appropriate should be appropriate 6. for the intended audience.

Keywords

Malleable - able to be hammered or pressed into shape without breaking

Innovative- new and original Analysis - detailed examination of the something Annotation- analysis added to a text or diagram Alloy - a metal made by combining two or more metallic elements

What is Pewter?

Pewter is a malleable metal alloy consisting of tin, antimony, copper, bismuth, and sometimes silver. Modern pewter consists of are 94% tin.

Pewter has a low melting point (around 170-230 °C) making it ideal for melting on a chip forge and brazing hearth and casting.

2D Design Basic Tools

SELECT - Use this tool to select different to DESIGN highlight objects.

LINE - This tool creates straight lines. Click to start the line, extend out and click to finish.

CIRCLE - This tool creates circle shapes. Click to start the circle, extend to the size needed and click to finish.

PATH - This tool creates curved lines through continual Un clicks

RECTANGLE - This tool can be used to create both rectangular and square shapes.

TEXT - Use this tool to insert text onto your designs. ABC

- The font, size and direction of the text can be changed.
- DELETE PART Use this tool to delete separate lines and DEL objects.

DELETE ANY - Use this tool to delete whole lines and DEL ANY objects.

CAD/CAM

CAD stands for Computer Aided Design.

R

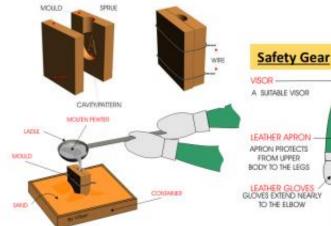
It involves designing products on a computer, rather than using a pencil and paper. CAD peckages include 20 drawing software (e.g. Adobe* illustrator*, CorelDRAW*, TechBoft 2D Design" and ArtCAM*) and 3D modelling software (e.g. SolidWorks"). CAD helps designers model and change their designs quickly. It's easy to experiment with alternative colours and forms and you can often spot problems before making anything.

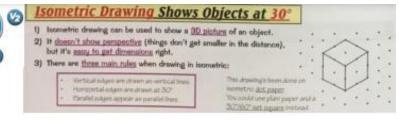
In 3D programs, you can view the product from all angles-CAM stands for Computer Aided Manufacture.

If's the process of manufacturing products with the help of computers-CAD software works out the coordinates of each point on the drawing. These are called x.u.z coordinates --- x is the left/right position, y is forwards/backwards and z is up/down. The point where x, y and z meet is (0.0,0) - the datum-CAM machines are computer numerically controlled (CNC) - they can follow

the x.u.z coordinates and move the tools to out out or build up your design.

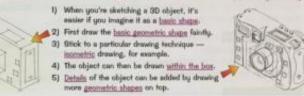
For example, some milling machines are CAM machines. They remove material from a larger piece of material to shape and create a product.





Crating Can Be Used to Draw 3D Shapes

Croting is where you start by drawing a box - the 'crote' -- and gradually add bits on and take bits off till you get the right shape. For example, you can remove sections from a suboid to make any other 3D shape.





Evaluation

Designers evaluate their finished products or prototypes in order to test whether they work well and if the design can be corrected or improved. Whatever you have designed it is important to evaluate your work constantly during the project. Evaluation can take a variety of forms:

- General discussion with other pupils, staff and others.
- Questionnaires / surveys carried out at any time during the project.
- Your personal views, what you think of existing designs.

By V.Faire

- Most important of all what do you think of your designs, prototypes and finished products ?
- Can you think of any other ways of evaluating your work ?

Pg 7

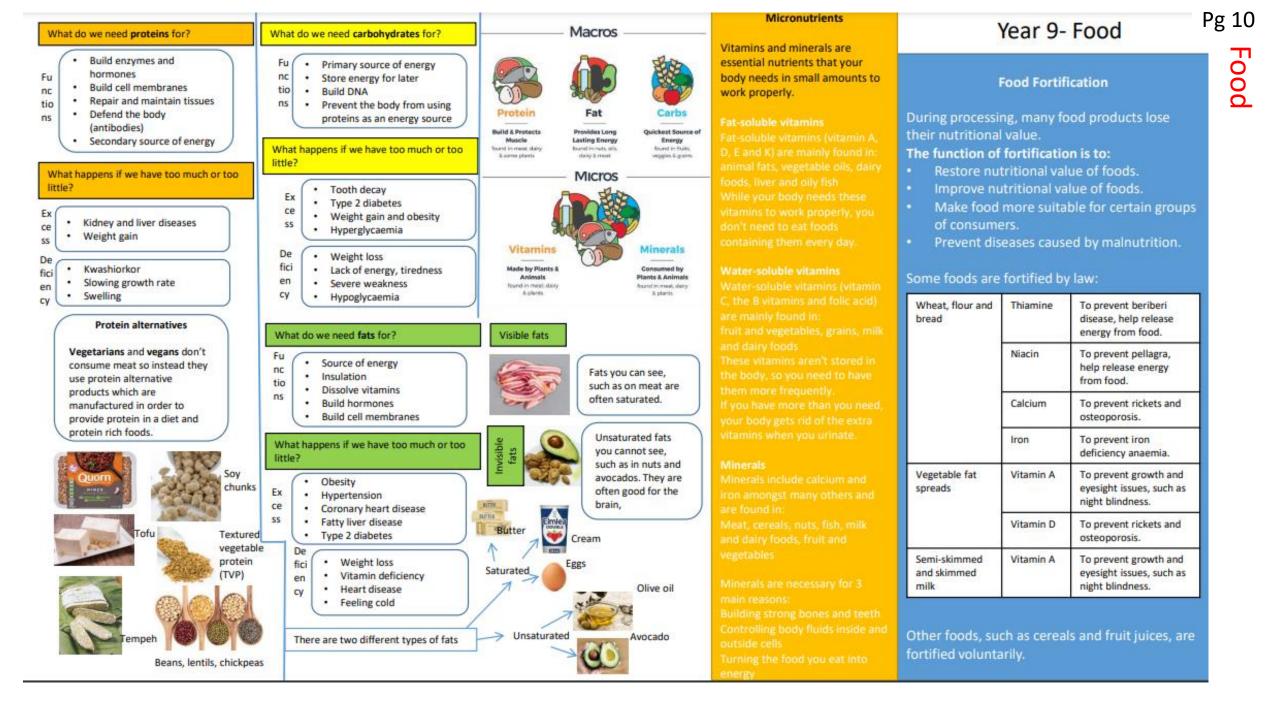
The Merchant of Venice Knowledge Organiser		
Very Brief Plot Summary		Key Quotations
Act I: Bassanio asks Antonio for a loan of 3,000 ducats. Antonio has to bo to Nerissa about the way her father has insisted she find a husband – by Act II: The Prince of Morocco arrives and chooses the gold casket and so fa from Shylock with Lorenzo. Shylock is enraged. We find that some of Anto the silver casket so he does not marry Portia either. Act III: More of Antonio's ships have been lost. Shylock says he will hav lead casket and is able to marry her – the two declare their love. Nerissa a ring. Bassanio hears that Antonio is ruined and leaves to help his frier Nerissa say they are retiring to a convent but secretly go to Venice to hel Act IV: Antonio is on trial. Bassanio begs Shylock to be merciful, but he Balthasar, who is really Portia dressed as a man, arrives at court to help A will not yield. Balthasar/Portia insists that Venetian law must be followed when Balthasar/Portia reminds him that the bond mentioned no blood a but Portia insists he have his bond. Shylock drops the case. He is then pu is merciful and gives Shylock a fine. Bassanio wants to give Balthasar/Port also gets Gratiano's ring.	choosing one of three caskets – and mocks the suitors so far. ails to win Portia's hand. Jessica steals money and jewels and escapes onio's ships have been lost. The Prince of Arragon arrives and chooses e his pound of flesh. Bassanio arrives to woo Portia. He chooses the and Gratiano reveal their love also. Portia and Nerissa give each man nd. Antonio is in prison and Shylock will show no mercy. Portia and p Antonio. will not rescind his bond. Bassanio offers 6,000 ducats to no avail. Intonio. Bassanio offers ten times the debt or his own life but Shylock d. Antonio and Bassanio say goodbye. Shylock is about to cut Antonio and he must not spill a drop. Now Shylock says he'll take the money nished for attempting to take the life of a citizen of Venice. The Duke	"In Belmont is a lady richly left, And she is fair" Bassanio: Act 1, Scene 1 "Try what my credit can in Venice do" Antonio: Act 1, Scene 1 "I may neither choose who I would nor refuse who I dislike; so is the will of a living daughter curb'd by the will of a dead father." Portia: Act 1, Scene 2 "If I can catch him once upon the hip, I will feed fat the ancient grudge I bear him." Shylock: Act 1, Scene 3 "let the forfeit Be nominated for an equal pound Of your fair flesh, to be cut off" Shylock: Act 1, Scene 3 "Mislike me not for my complexion" Pr. of Morocco: Act 2, Scene 1 "Alack, what heinous sin is it in me To be ashamed to be my father's child?" Jessica: Act 2, Scene 3 "Beshrew me but I love her heartily" Lorenzo: Act 2, Scene 6
Act V: Portia and Nerissa arrive home just before their husbands. Bassanio, Antonio and Gratiano arrive and give the good news. Portia and Nerissa 'find out' that the men have given their rings away and pretend to be cross. Eventually, the two women give their husbands back their rings and all is revealed. Antonio hears that some of his ships are safely home. Lorenzo hears he will inherit Shylock's fortune.		Lies all within. Deliver me the key;" Pr. of Morocco: Act 2, Scene 7 "My daughter, O my ducats, O my daughter!" Shylock: Act 2, Scene 8 "I am a Jew. Hath not a Jew eyes? Hath not a Jew hands, organs, dimension: senses, affections, passions?" Shylock: Act 3, Scene 1
 Antonio: A very good friend of Bassanio, Antonio is shown as kind – he borrows money to help Bassanio and is prepared to lose his life for it – but also unkind as he is anti-Semitic. Bassanio: A Venetian nobleman who often borrows from his friend Antonio. He is in love with Portia and proves worthy of her love when he passes the casket test. Portia: A rich and clever noblewoman from Belmont who must choose a husband with three caskets. She loves Bassanio and he passes the casket test. Portia dresses as a man and saves Antonio from Shylock. Shylock: A money lender and a Jew who is very angry about his treatment at the hand of the Christians of Venice, particularly Antonio. He lends Antonio money with a bond of a pound of flesh. Shylock is eloquent and defends his own humanity yet seems merciless and cruel. 	Context Usury: In modern times usury means lending money for excessive interest. In Shakespearean times usury meant any kind of money- lending. Money-lending was considered to be a disreputable trade, mainly because Christians believed the Bible forbade it. However, in reality, most merchants of the time borrowed money to speculate on new investments. Anti-Semitism: When the Merchant of Venice was staged, most of the audience would never have knowingly met a Jewish person. Jews had been expelled from the country 300 years before and so the few that were in England practised their religion in secret. Elizabethans therefore were often hugely anti-Semitic, believing stories and outlandish rumours that said Jewish men were child killers, womanisers and had a strange and fetid smell.	"I would my daughter were dead at my foot, Act 3, ocene 1 "I would my daughter were dead at my foot, and the jewels in her exist Shylock: Act 3, Scene 1 "Pay him six thousand, and deface the bond." Portia: Act 3, Scene 2 "First go with me to church and call me wife, And then away to Venice to your friend!" Portia: Act 3, Scene 2 "I'll have my bond. Speak not against my bond." Shylock: Act 3, Scene 3 "My Lord Bassanio, let him have the ring." Antonio: Act 4, Scene 1 "The quality of mercy is not strained. It droppeth as the gentle rain from heaven Upon the place beneath." Portia (as Balthazar): Act 4, Scene 1 "I am not well; send the deed after me And I will sign it." Shylock: Act 4, Scene 1 "I'll die for 't but some woman had the ring!" Portia, Act 5, Scene 1

Pg 8

English

Main Characters	Context
Nerissa : Portia's lady in waiting and friend. Nerissa marries Gratiano and accompanies Portia to Venice disguised as a male clerk.	Marriage: Marriage was less a love match and more an arrangement between families. Both men and women rarely chose their own
Gratiano: A friend of Bassanio's who is very critical of Shylock during the trial. Falls in love with and marries Nerissa.	marriage partner. This was especially true of noble families.
Jessica: Shylock's daughter who falls in love with Christian Lorenzo. She is ashamed to be Shylock's daughter, elopes with Lorenzo and becomes a Christian.	

Themes	Symbols and Motifs	Key Vocabulary	Language and Techni	iques
Love	The pound of flesh	anti-Semitism	symbolism	
Friendship	 Jews were portrayed as bloodthirsty murderers 	Judaism	allegory	
Familial love	at this time and so Shylock's demand for a	usury	foreshadowing	
Romantic love	pound of flesh would epitomise the way Jews were regarded.	merchant	iambic pentameter	
Prejudice	 Shylock has also just lost his own 'flesh and 	risk	metaphor	
Jews/Christians	 Shylock has also just lost his own riesh and blood' – Jessica. So the pound of flesh could 	revenge	simile	
Mixed relationships	represent his revenge on Christians generally.	pound of flesh	allusion	
 Shylock: 'If you prick us, do we not bleed?' 	Rings	Venice	dramatic irony	
Money	 Portia gives Bassanio a ring to represent love 	Rialto	hyperbole personification	
Mistrust of money lenders	and commitment.	bond		
Support for merchants	Nerissa gives Gratiano a ring which represents	interest	repetition	
Bassanio profligate with money	the same.	prejudice	deus ex machina	
Portia very wealthy	 The turquoise ring that Jessica stole from 	Christianity		
Jessica stole riches	Shylock represents his memories and love for		Key Shakespearean W	Î.
Risks with money	his wife who has died.	mercy	argosy	lading
Women in society	The three caskets:	justice	presage	rail
Women were not free to marry who they chose – even if their father had died!	 For Portia, these represent the control her father exerts on her even from beyond the 	patriarchy	beholden to	wrest
 Women are strong and make their own decisions in the play. 	grave.		baned	surfeit
• However, they can only influence events by either doing it in secret (Jessica) or	 For her father, they may have represented 		cozen	foppery
disguising themselves as men (Portia and Nerissa).	his love for his daughter in making sure she		prattle	usance
Mercy and justice	marries well.		gratis	chaff
 Shylock is expected to be merciful but isn't. 	• The gold casket: appearances can be deceptive		visage	ducat
Antonio is merciful.	 Silver: being a fool 		wive	currish
 Portia: 'The quality of mercy is not strained' 	 Lead: modesty and good judgement 		forfeiture	shrive
 Is justice done by the end of the play? 				



Quelle est ta matière préférée? L'anglais L'espagnol Le français Le théâtre Le dessin Le sport (L'EPS) L'informatique La musique La technologie La géographie L'histoire	Cabot Learning Federation What is your favourite subject? English Spanish French Drama Art PE Computer Science Music Technology Geography	9.11 My schoo Comment est ton uniforme scolaire? Je porte Une veste/ un blazer Un pull Une chemise Un t-shirt Une cravate Une jupe Des chaussettes Un pantalon	What is your schooluniform like?I wearBlazerJumperShirtT-shirtTieSkirtSocksTrousers	Quelles sont les règles? On ne doit pas On ne peut pas Il faut Il est interdit de Écouter en classe Utiliser son portable en classe Porter les bijoux Porter le maquillage Porter les baskets Manquer les cours Être à l'heure Mâcher du chewing-gum Faire ses devoirs	What are the rules?You must(n't)You can('t)You have toIt is forbiddenTo listen in classTo use your phone in classTo wear jewelleryTo wear make upTo wear trainersTo miss lessonsTo be on timeTo chew gumTo do homework
L'éducation religieuse L'éducation civique Les mathématiques Les sciences L'histoire/géo Qu'est-ce que tu en penses? C'est Intéressant (e) Pratique Utile	History RE PSHE Maths Science Humanities What do you think? It is Interesting Practical	Des chaussures Un collant Moche Beau/belle (In)confortable Cher Pas cher À la mode Démodé	Shoes Tights Ugly Pretty (un) comfortable Expensive Cheap Fashionable Unfashionable	Qu'est-ce que tu voudrais faire dans le futur? Réussir mes examens Recevoir des bonnes notes Faire un apprentissage Chercher du travail Faire du bénévolat Voyager le monde Avoir des enfants	What do you want to do in the future? To pass my exams To get good grades To do an apprenticeship To look for a job To work as a volunteer To travel the world To have children
Inutile Facile Difficile Ennuyeux (se) Passionnant (e) Creatif (ve) Important (e) Trop Très Assez	Useful Useless Easy Difficult Boring Exciting Creative Important Too Very Quite	La journée scolaire Je quitte la maison Je vais au collège Les cours commencent Les cours terminent. Ça dure La récréation L'heure du déjeuner Le matin L'après-midi	The school day I leave home I go to school Classes start Classes end It lasts Break Lunch In the morning In the afternoon	me marier Apprendre à conduire Médecin Professeur Avocat (e) Mécanicien (ne) Plombier (ière) Pompier (ière) Veterinaire Coiffeur (euse)	To get married To learn how to drive Doctor Teacher Lawyer Mechanic Plumber Firefighter Vet Hairdresser

<u>9.11</u>	My	school	
Knowle	dge	Organi	ser

School – Subjects, uniform and time Future plans & jobs



Pg 12 French

The present tense	ER verb	IR verb	RE verb
Je (I)	-е	-is	-S
tu (you)	-es	-is	-S
Il/Elle/On (he/she/one)	e	-it	-
Nous (we)	-ons	-issons	-ons
Vous (you all)	-ez	-issez	- ez
Ils /Elles (they)	-ent	-issent	-ent

The future tense in French

You can talk about the future by using the near future tense. Use part of the verb ALLER and the infinitive to say what you are going to do.

Ce soir, je vais jouer au tennis. This evening I am going to play tennis. Demain, Paul va faire un gâteau. Tomorrow Paul is going to make a cake.

You can also use the following phrases with an infinitive to refer to the future. Je veux= I want Je voudrais = I would like

J'aimerais = I would like J'espère = I hope

Adjectives describe nouns e.g., a <u>black</u> blazer.

In French, adjectives normally go after the words they are describing e.g., une chemise bleue (a blue shirt) and they must agree with the noun they are describing.

Adjectives must agree with the noun (or pronoun) they describe in gender and in number.

This means that if the noun an adjective describes is feminine, the adjective must be feminine e.g., une veste noire (a black blazer).

If that same noun is also plural, the adjective will be feminine AND plural as well e.g., les chaussettes noires (black socks).

<u>Comparatives</u> – to express more or less than

... est plus + adjective + que - is more...adjective...than

... est moins + adjective + que - is less...adjective... than

... est aussi + adjective + que – is as...adjective...as

For example:

L'anglais est plus intéressant que la géographie. (English is more interesting than Geography)

L'histoire est moins active que l'E.P.S. (History is less active than PE)

Le français est aussi difficile que les maths. (French is as difficult as maths).

Pg 13 Geography

Year 9 Geography Knowledge Organiser – Term 5

	1	Sustainability is made up of three key strands, economic	9	Municipal	Waste collected by councils (or similar). Business waste eg from
1	sustainability	a focus on cost and economic impacts, social impacts on	<u> </u>	waste	offices and schools would also be classed as this.
2	BedZED	people, environmental a focus on landscape and nature The Beddington Zero Energy Development an environmentally-friendly housing development in Wallington, a suburb of London.	10	Net zero carbon	A target of completely negating the amount of greenhouse gases produced by human activity, to be achieved by reducing emissions and implementing methods of absorbing carbon dioxide from the atmosphere.
	Green Capital	The European Green Capital Award was developed to promote and reward local authorities who improve the	11	Recycling	The process of converting waste materials into new materials and objects
3	1	environment, and their high level of commitment to progress, to encourage cities to commit to further action, and to showcase and exchange of best practice among European cities.	12	SDGs	Sustainable Development Goals – 17 goals defined by the United Nations in 2015. These goals call for action by all countries and aim to end poverty, fight inequality and injustice, and tackle climate change.
4		A movement of people who are passionate about defending the natural world from destruction. Our vision is a greener, healthier and more peaceful planet, one	13	Sustainable development	Development that meets the needs of the present without compromising the ability of future generations to meet their own needs
5	Incineration	that can sustain life for generations to come. Involves burning waste at very high temperatures to eventually reduce the amount of waste and then produce electricity.	14	Sustainable	Housing which is energy efficient by itself, environmentally healthy, respectful for the natural environment, comfortable for family life, in other words to be sustainable designed, built of green or recycled materials, and this house should use alternative
6	Landfill	Are hollows in the ground where rubbish is dumped.		Housing	energy resources.
7	Masdar City	Masdar City, Abu Dhabi, is one of the world's most sustainable urban communities, a low-carbon development made up of a rapidly growing clean-tech	15	UN	United Nations - An intergovernmental organisation of 193 member states formed after WWII. Aims to secure international peace, eliminate poverty and protect human rights
	MDGs	cluster, business free zone and residential neighbourhood with restaurants, shops and public green spaces. Millennium Development Goals - 8 goals that UN	16		United Nations Development Programme - works in about 170 countries and territories, helping to eradicate poverty, reduce inequalities and exclusion, and build resilience. Works on the
8		Member States have agreed to try to achieve by the year 2015. Replaced by SDGs.	17	UNDP Urban Development	SDGS A group of buildings, often houses built together
			18	Waste	Items discarded as no longer useful, usually disposed of (thrown away)
	Eradicate extreme poverty and hunger	Achieve universal primary education Promote gender equality and empower women Reduce child mortality.			Sustainability Social Economic Environmental

9.11 My school	
Knowledge Organiser	

School – Subjects, uniform and time Future plans & jobs



Pg 14

Germar

infinitives	machen	können	RE verb
ich(I)	mache	kann	lerne
du (you)	machst	kannst	lernst
er/sie/man (he/she/ one)	macht	kann	lernt
Wir (we)	machen	können	lernen
ihr (you all)	macht	könnt	lernt
Sie (you) /sie (they)	machen	können	lernen

The future tense in German

You can talk about the future by using the present tense + a future time phrase or use the future tense which is:-

Use part of the verb werden and the infinitive to say what you are going to do/will do

Heute abend spiele ich Tennis. This evening I am going to play tennis. Morgen wird Paul Kuchen essen. Tomorrow Paul will eat cake.

You can also use the following phrases with an infinitive to refer to the future. Ich will= I want Ich möchte = I would like

Adjectives describe nouns e.g., a black blazer.

In German, adjectives go before the words they are describing e.g., eine blaue Krawatte (a blue tie) and they must agree with the noun they are describing.

Adjectives must agree with the noun (or pronoun) they describe in gender and in number.

This means that if the noun an adjective describes masculine, the adjective must be masculine e.g., einen schwarzen Blazer (a black blazer).

If the noun is plural, the adjective will be plural as well e.g., schwarze Socken (black socks).

Comparatives - to express more or less than

Add **'er'** to the adjective, but in words of more than 1 syllable an umlaut is sometimes added too. You must also add **als = than** klein = klein**er**(smaller) lang = l**ä**ng**er** wichtig = wichtig**er** (more important) Mathe ist interessant**er als** Deutsch mehr = more/weniger = fewer/besser = better

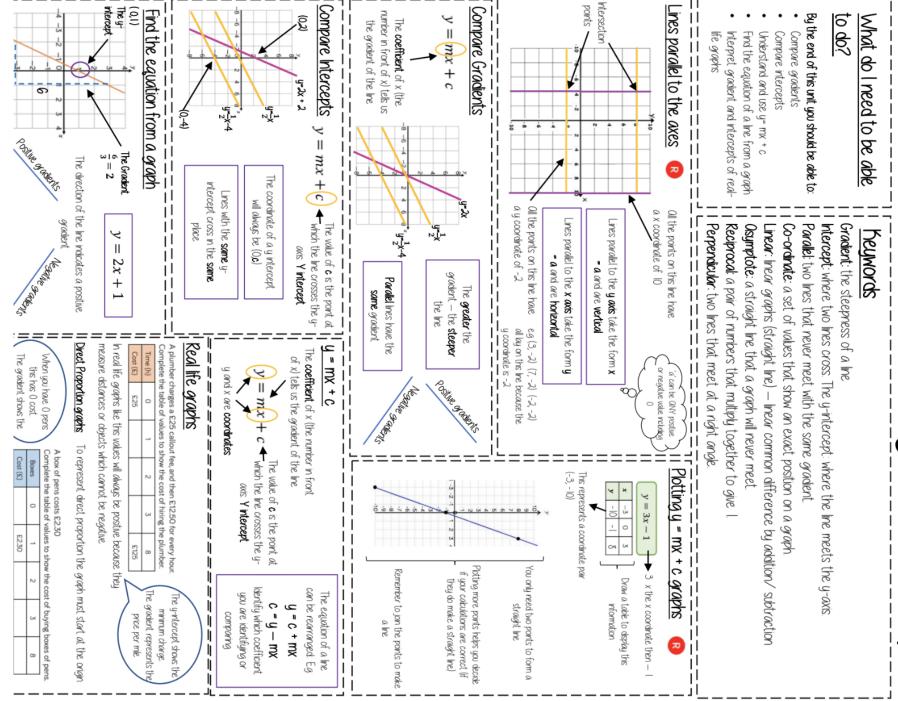
	Cabot				
Was ist dein Lieblingsfach?	Learning Favourtite Subject.	9.11 My school	– vocab. list	Was sind die Schulregeln?	What are the rules?
Englisch	English			Man darf(nicht)	You are allowed
Spanisch	Spanish 39	Beschreib deine	Describe your school	Man kann (nicht)	You can('t)
Französisch	French	Schuluniform	uniform	Man muss	You have to
Theater	Drama	Ich trage	l wear	Es ist verboten	It is forbidden
Kunst	Art	eine Jacke/einen Blazer	Blazer	Im Unterricht zuhören	To listen in class
Sport		einen Pullover		Ein Handy im Klassenzimmer haben	To have a phone in class
Informatik	Computer Science	ein Hemd	Jumper Shirt	Schmuck tragen	To wear jewellery
Musik	Music	ein T-Shirt	T-shirt	Make –up tragen	To wear make up
Technologie				Sportschuhe tragen	To wear trainers
Erdkunde	Technology	eine Krawatte/einen Schlips einen Rock	Tie Mint M	Unterricht verpassen	To miss lessons
Geschichte	Geography		Skirt Socks	pünktlich sein	To be on time
	History RE	Socken		Kaugummi kauen	To chew gum
Religion		eine Hose	Trousers	Hausaufgaben machen	To do homework
Mathe/Mathematik	Maths	Schuhe	Shoes		
Naturwissenschaften	Science	Strumpfhose	Tights	Was möchtest du in der	What do you want to do in
Deutsch	German			Zukunft machen?	the future?
Wie findest du?	What do think about?	hässlich	Ugly	Prüfungen bestehen	To pass my exams
Es ist	It is	schön	Pretty	gute Noten haben	To get good grades
interessant	Interesting	(un)bequem	(un) comfortable	eine Lehre machen	To do an apprenticeship
praktisch	Practical	teuer	Expensive	einen Job suchen	To look for a job
nützlich	Useful	billig	Cheap	freiwillig arbeiten	To work as a volunteer
nutzlos	Useless	modisch	Fashionable	reisen	To travel
einfach	Easy	altmodisch	Unfashionable	Kinder haben	To have children
schwierig	Difficult			heiraten	To get married
langweilig	Boring	Der Schultag	The school day	fahren lernen	To learn how to drive
spannend	Exciting	Ich verlasse die Schule	I leave home		
kreativ	Creative	Ich gehe zur Schule	I go to school	Arzt(-in)	Doctor
wichtg	Important	Die Stunden beginnen	Lessons start	Lehrer (in)	Teacher
zu	Тоо	Die Schule istzu Ende	School ends	Rechtsanwalt (in)	Lawyer
sehr	Very	Es dauert	It lasts	Mechaniker (in)	Mechanic
ziemlich	Quite	Die Pause	Break	Klempner	Plumber
	L	Die Mittagspause	Lunch break	Feuerwehrmann/frau	Firefighter
		Morgens	In the morning	Tierarzt(in)	Vet
		Nachmittags	In the afternoon	Friseur/Friseuse	Hairdresser

									P{							
	Context		History – Year 9				Key Te	erms								
Dur	O's and 70's Britain is often regarded as a period of revolution and change. ing this topic we are going to assess how much change occurs during this time iod for LGBTQ+, women and Black people.	End in	Knowledge Organiser Term 5	MET	10	activism		f campaigning to bring I or political change.	about change.							
	Key Events	LGBTQ+,	nuch did life change women and Black pe	eople	11	civil rights	The rights of and equality.	citizens to political an	d social freedom							
1	1961 – The Contraceptive pill available for married women for the first time on the NHS.		during the 1960's and 70's?			during the 1960's and 70's?		during the 1960's and 70's?		married women for the first time during the 1960's and 70's?		12	decriminalisation	To no longer criminal offer	to treat something as nce.	illegal or as a
2	30th April – 17th September 1963 – Bristol Bus Boycott took place to challenge discrimination on Bristol's buses.	Public Attit	tudes		13	equality	The state of t rights, or opp	being equal, especially portunities.	y in status,							
3	1965 – Race Relations Act passed, first law to ban racial discrimination in public places and made it a criminal offence.		Governmen	nt/Law	14	legalisation	To make som allowed by la	nething that was previous.	ously illegal							
1	1967 – Sexual Offences Act was passed which decriminalised private homosexual acts between men aged over 21.				15	liberation	To set someo from oppress	one or something free. sion.	. For example							
5	1967 – Family Planning Act passed, contraception available to all through the NHS.		Factors that effect change)	16	revolution	To overthrow favour of a ne	v a government or soc ew system.	ial order, in							
5	1968 – The first St Pauls Carnival took place in Bristol.				17	Second Wave	Feminists wh	o sought to change so	cial and sexual							
	7 th June 1968 – 187 women sewing machinists at the Ford Motor Company plant in Dagenham , Essex, went on strike.	┤┝─┦ ┍─┙				Feminism	discriminatio Key S									
3	9 August 1970 – Black Power activists march against police harassment of the Black community in Notting Hill, London.	Me	dia		18	-	What changed a	and continued, stayed ng the 60's and 70's?	· · · · · ·							
9	1 July 1972 - First Pride march took place in the UK, approximately 2000 protesters marched in London .	Ke	ey Individuals/Grou	ps				gs change? To what ex								
	968 - British ack Panthers BBP 1970 - Gay Liberation Front GLF C.1960's - Women's Liberation Movement WLM 1978 - Organisation of Women of Asian and African Descent OWAAD	Darcus Howe BBP	Olive Morris BBP	Stella Da OWA		Roy Hackett Bristol Bus Boycott	Paul Stephenson Bristol Bus Boycott	Aubrey Walter GLF	Bob Mellors GLF							

Pg 17 Maths			c
need to be able is unit you should be able to sequence from term to to the term rules that arise roes that arise	Keywords Sequence: Items or numbers put in a pre-decided order Term: a single number or variable Position: the place something is located Linear: the difference between terms increases or decreases (+ or -) by a constant value each time Non-frear: the difference between terms increases or decreases in different amounts, or by x or + Difference: the gap between two terms Outhmetic: a sequence where the difference between the terms is constant Geometric: a sequence where the difference between the terms is constant Geometric: a sequence where each term is found by multiplying the previous one by a fixed non zero number	Keywords Sequence: items or numbers put in a pre-decided order Term: a single number or variable Position: the place something is located Linear: the difference between terms increases or decreases (+ or -) by a constant value each tim Non-hear: the difference between terms increases or decreases in different amounts, or by x or ÷ Difference: the gap between two terms Orthmetic: a sequence where the difference between the terms is constant Geometric: a sequence where the difference between the terms is constant number	a constant value each time rent amounts, or by x or ÷ ant ous one by a fixed non zero
 Linear and Non Linear Sequences Linear Sequences - increase by addition or subtraction and the same amount each time. Non-hear Sequences - do not increase by a constant amount - quadratic, geometric and Floonacci Do not plot as straight lines when modelled graphically The differences between terms can be found by addition, subtraction, multiplication or division 		Sequence in a table and graphically Postor: the place in the sequence 1 2 3 3 5 47	The term in position 3 has 7 squares*
Fibonaeci Sequence - bok out for this type of sequence 0 2 3 5 8	the rumb	rumber of variable / er of squares in each image)	
Each term is the sum of the previous two terms ====================================		Position 1 2 Term 3 5 $+2$ $+2$ $+2$ re terms increase by the size of the graph as seen in the graph	ch time this $value of te 6$ Position
alues increase	gle This is not livear as there is a 1 Com at a power for n 1 Substitute the number of the term you are looking for in place of 'n'	Complex algebraic rules 2m ² 2 times whatever n squared is	Misconceptions and comparisons (20)2 times in then square the answer
	ی چید پر ور عالی کے 19		eg # term = (2 x 1) ² = 4 2# term = (2 x 2) ² = 16 100 th term = (2 x 100) ² = 40000
Is 201 in the sequence $3n - 47$ $3n - 4 = 201^{4}$ Olgebraic rule Solving this will find the post ONLY an integer	4? 3n - 4 = 201 Term to check Solving this will find the position of the term in the sequence. 0NLY an integer solution can be in the sequence.	n (n + 5) \leftarrow $\mu^{k} term = 1(1+5) = 6$ $\mu^{k} term = 2(2+5) = 14$ $100^{th} term = 100(100+5) = 1$	You don't need to expand the 0500 expression
H Finding the algebraic rule This is the 4 → 4, 8, 12, 16, 20. times table		4n + 3	¦
4n 7, 11, 15, 19, 22	This has the same constant difference - but is 3 more than the original sequence 4n + 3	n difference between the terms in the sequence	This is the comparison (difference) between the original and new sequence
Compound Measures Topic/Skill Definition/Tips Ex Metric System A system of measures based on:	Speed, Distanc Time Ikilometres = 1000 metres 1 metre = 100 centimetres 1 centimetre = 10 millimetres	ncc, Speed = Distance + Time Distance = Speed x Time Time = Distance + Speed	Speed = 4mph Time = 2 hours Find the Distance. $D = S \times T = 4 \times 2 = 8$ miles Bernanther the correct inter
Mass: mg, g, kg Volume of weights and measures originally developed in England, usually based on human quantities Length: inch, foot, yard, miles Mass: B, ounce, stone Volume: pint, gallon Vestime thouse the output Use the unitary method unperial Units and imperial units.	1lb = 16 ounces Density, Ma 1 foot = 12 inches 1 gallon = 8 pints Volume 1 gallon = 8 pints 1 gallon = 4.5 litres 1 gallon = 4.5 litres	ss, Density = Mass + Volume Mass = Density x Volume Volume = Mass + Density	Density = Big/m ³ Mass = 2000g Find the Volume. $V = M + D = 2 + 8 = 0.25m^3$ Remember the correct units.
	1 Inch = 2.5 centimetres Pressure, FQ	orce, Pressure = Force + Area Force = Pressure x Area Area = Force + Pressure	Pressure = 10 Pascals Area = 6cm ³ Find the Force $F = P \times A = 10 \times 6 = 60 N$ Remember the correct units.

Pg 18 Maths

@whisto_maths YEAR 9 REASONING WITH ALGEBRA... Straight Line Graphs



Year 9- Film Music- Knowledge Organiser

K	Key Terms 1–Film Music	Key	Terms 2–Music Theory		MET
Specially Composed Music	Some music is composed specially for a film. Much of this is broadly classical in style.	Bass Clef	A musical symbol indicating to performers to perform the notes and a certain (low) pitch		
Borrowed Music	Some music used in film soundtracks was composed for other purposes but is adopted for use in a film because it	Chord	A series of notes played together at the same time e.g. the James Bond Leitmotif	1	33 1 2E
Cue Sheet	fits the film-maker's intentions. A detailed listing of musical cues matching the visual action of a film so that composers can time their music	Concord	A chord where the notes sound 'comfortable' or 'happy' with each other e.g. chord of C major	21	E
Diagetic	accurately to match the visual images. Music that is part of the action: the	Discord	A chord where the notes sound like they 'clash' together – often producing a 'tense' feel		Rachel Portman Kathryn Bostic
Non- Diagetic	characters in the film can hear it. Music that is not part of the action: the characters in the film cannot hear it. It is just for the audience.	Crescendo	Gradually getting louder	Key Tern Syncing/ Sync Point	A precise moment where the timing of the music needs to fit
Leitmotif	A short melody that is associated with a character or idea in a film. E.g, James Bond has his own leitmotif.	Pitch	Horror movie composers often use extremes of high and low pitch when creating musical soundtracks to create a feeling of	Timecode	with the action. A time synchronisation tool that every film maker must use to
Sound- track	The word "soundtrack" can often mean a commercial recording of a collection of music and songs from a	Repeat	'tension' and 'suspense' A musical symbol made up of two	MIDI	make sure that the visuals, dia- logue and music are all in time. MIDI connects devices that
Theme Song	film sold individually as an audio CD. Sometimes a song, usually a pop song, is used as a theme song for a film. This helps with marketing and publicity	Marks	dots and two bar lines, telling the performer to go back to the beginning (or to the previous repeat marks) and repeat the music	(Musical Instrument Digital Interface)	make and control sound — such as synthesizers, samplers, and computers — so that they can communicate with each other.
Under Score	Where music is played at the same time as the action or dialogue.			DAW (Digital Audio Workstation)	A comprehensive piece of soft- ware that allows your computer to record, edit, mix and pro-



Protein is used for muscle growth and repair

PLANT BASED PROTEIN			ANIMAL BASED PROTEIN NPER 1005 @thefitnesscheft			
CHIDPEAS	GATS	TOPU	EGGS	TURKEYMINCE	CONTRACT LANSAGE CONTRACT	
7g protein	O Itgprotein	CO Tag protain	(internet internet in	Eg protein	El proceso	
BROWNINCE	OLINGA	LENTES	PRAWNS	TUNA	SAUMON	
St protein	Al protection	eg protein	teg protein		25g protein	
CASHEWS	PEANLT BUTTER	AUMONEDS	PORKCHOP	REEVE	DUCK	
16g protein	28g protein	29g probein	19g protein	N	27g protein	
AMOCADO	BREXCEDU	EDAMAME	SEMISINARD	GREEK YOGURT	EDWICHERSE	
2g protain	Augentein	Carotein	Ag protein	te en en	21g protein	
*50	me incomplete pro	sterns -	*A	i complete prote	nins .	

Carbohydrates are used within energy production

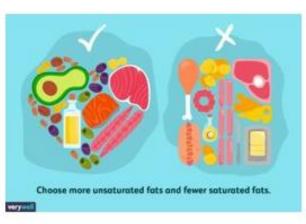
SOURCES OF DIETARY FIBRE

Fibre supports the

digestive system

Fit with A.F

Fats also assist in energy production but also insulate the body



Vitamins are important for prevention of disease and functioning of our metabolism. Minerals are essential for health and chemical reactions in our body



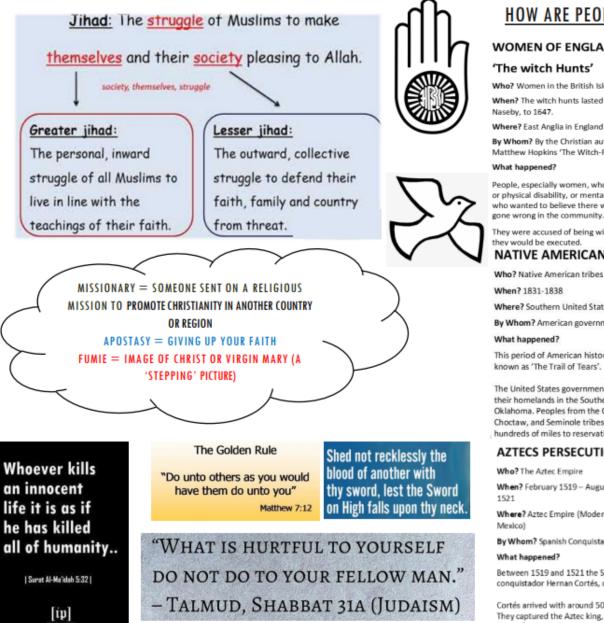
Pg 20

PE

RS

What happens when people disagree?

Key Word		Definition					
Persecution	擴戰數	Cruel or unfair treatment, especi or political beliefs.	ally because of race or religious				
Schism	26	A tear or split. In religion it is when the religion splits into opposing groups.					
Denomination or sect	F.		A branch or group within a religion. For example, Sunni and Shia in Islam, or Catholic and Protestant in Christianity.				
Islamophobia	The fear of, hatred of, or prejudice against the religion of Islam or Muslims in general.						
Homophobia	Dislike of or prejudice against gay people.						
Holocaust		Also known as the Shoah, betwee genocide of European Jews duri					
Religion Both Politics							
Religion = a system of faith		Place these words on a	venn diagram.				
system of faith and worship		Place these words on a Prayer	e venn diagram. Crime and punishment				
system of faith	Voting Beliefs		Crime and				





'The witch Hunts'

Who? Women in the British Isles

When? The witch hunts lasted from 1645, just after the Battle of

By Whom? By the Christian authorities & a man called Matthew Hopkins 'The Witch-Finder General'

People, especially women, who were different in any way, through age, or physical disability, or mental disability, were picked out by those who wanted to believe there was some specific reason why things had gone wrong in the community.

They were accused of being witches & were put on trial. If found guilty, they would be executed.

NATIVE AMERICAN PERSECUTION

Who? Native American tribes

Where? Southern United States

By Whom? American government

This period of American history known as 'The Trail of Tears'.

The United States government forced Native Americans to move from their homelands in the Southern United States to Indian Territory in Oklahoma. Peoples from the Cherokee, Muscogee, Chickasaw, Choctaw, and Seminole tribes were marched at gunpoint across hundreds of miles to reservations.

AZTECS PERSECUTION

Who? The Aztec Empire

When? February 1519 - August 13.

Where? Aztec Empire (Modern day

By Whom? Spanish Conquistadores

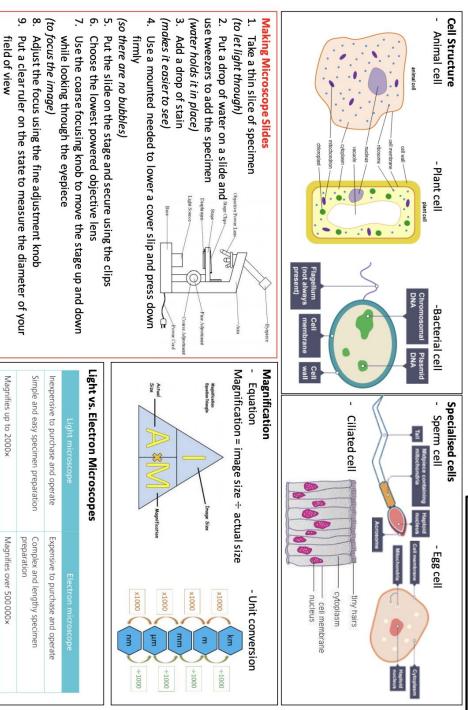
Between 1519 and 1521 the Spanish, under the leadership of conquistador Hernan Cortés, conquered the Aztec Empire.

Cortés arrived with around 500 men, 16 horses, and some cannon. They captured the Aztec king, Montezuma II, & killed him. Fighting began & a second Aztec king was killed. The Spanish conquistadores took the capital city Tenochtitlan (now Mexico City).



Pg 22 Science

EDEXCEL 9-1 Combined Science | Biology Topic 1 -Key Concepts | Required Knowledge CPG F & H tier: pages 11-14.



(this will allow you to estimate the size of the specimen) 10. Repeat focusing with higher-powered objective lens if needed

Specimens may be living or

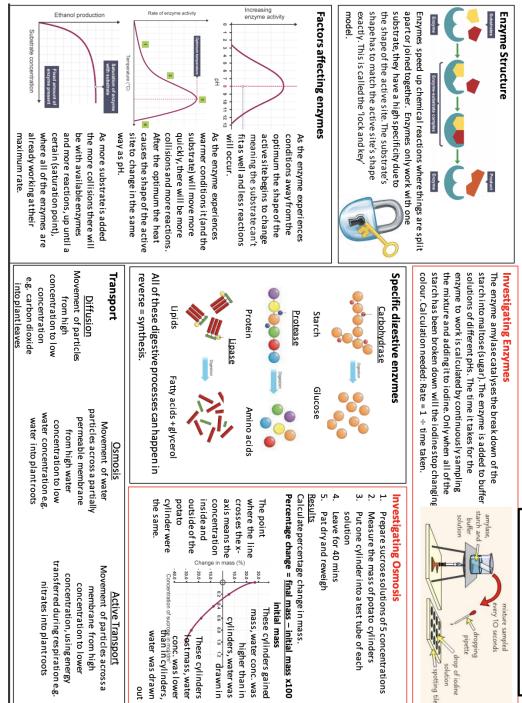
deac

Specimens are dead, and must be a plastic material

fixed

3

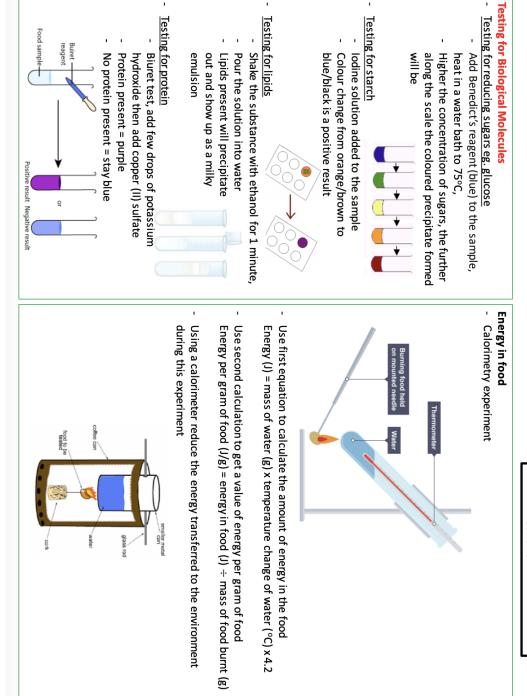




Pg 23 Science

EDEXCEL 9-1 Biology | Topic 1 – Key Concepts | Required Knowledge

CPG Biology: pages 19-20



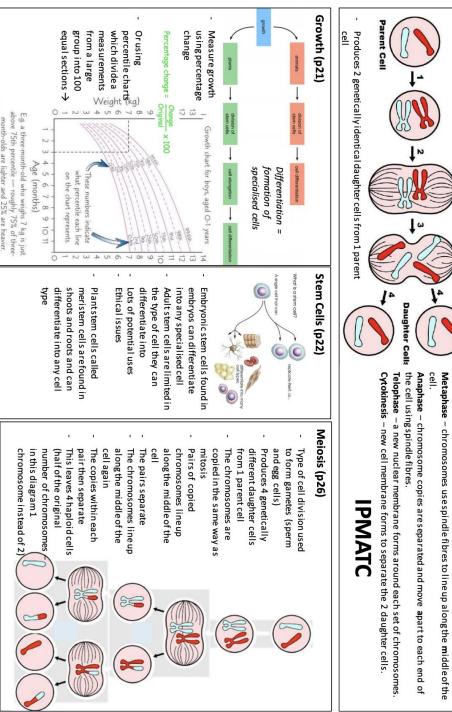
Mitosis (p20) EDEXCEL 9-1 Combined Science | Biology Topic 2 -Cells and Control | Required Knowledge CPG F & H tier: pages 20-22. 26.

Interphase – cell makes extra sub-cellular parts. DNA replication occurs, chromosome copies stay attached. Prophase – nucleus breaks down and spindle fibres appear. Chromosomes

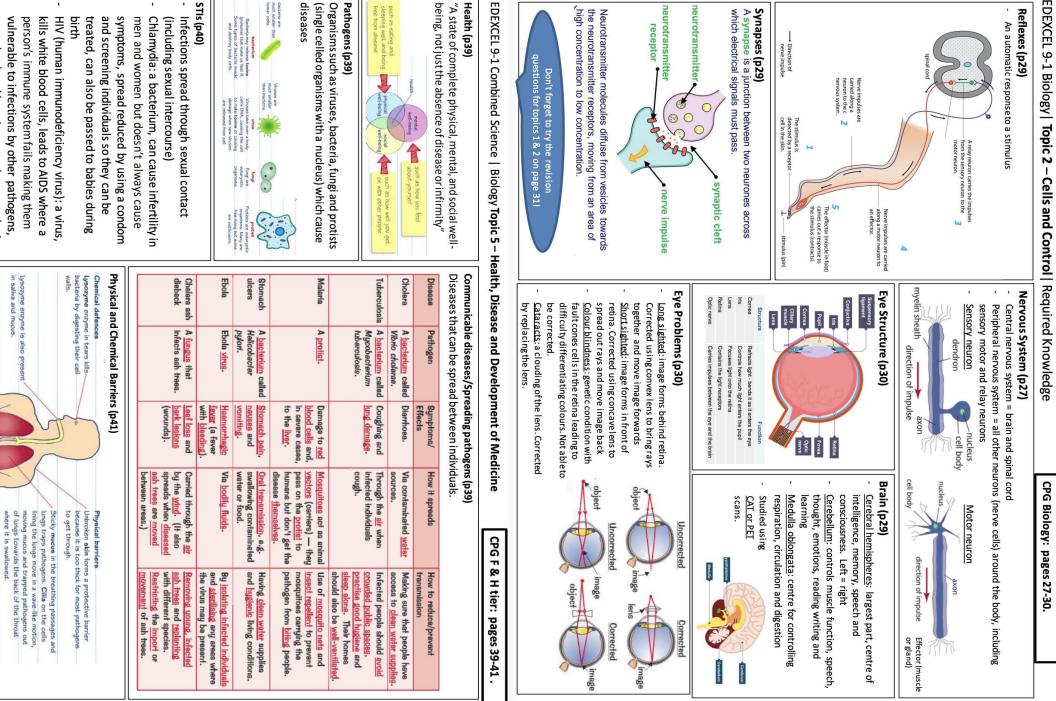
become visible

Type of cell division used for growth and repair

Prophase



Pg 24 Science



spread reduced by using a condom, not sharing needles during drug use, screening and vulnerable to infections by other pathogens,

medication

s in food

and d

•

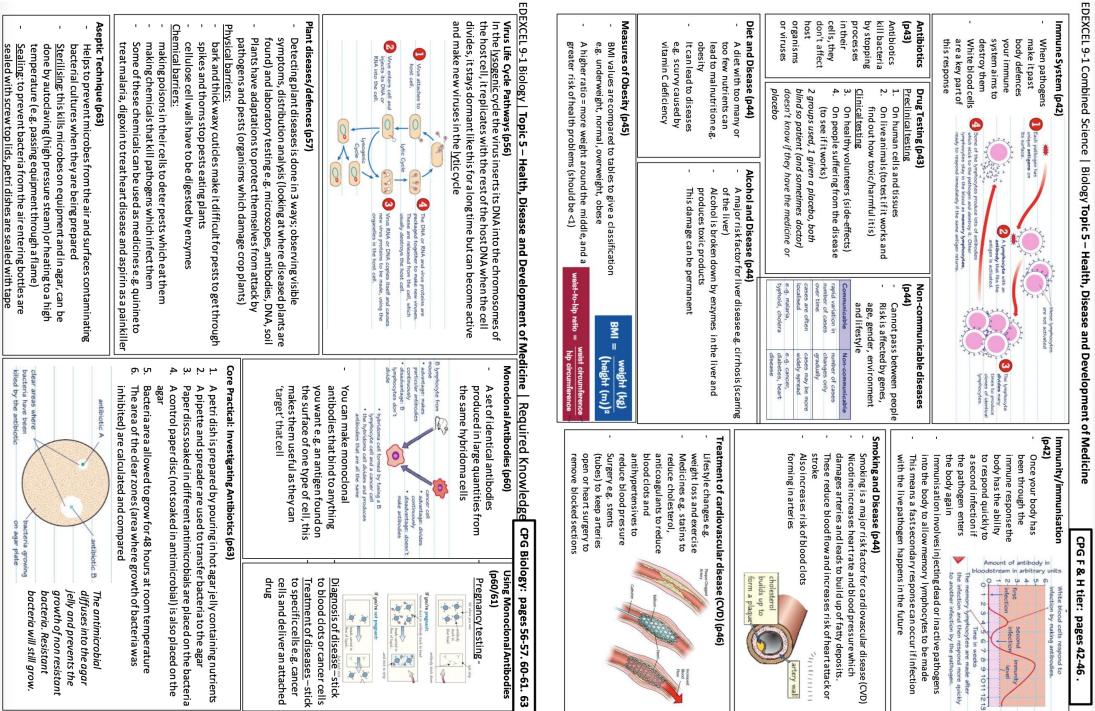
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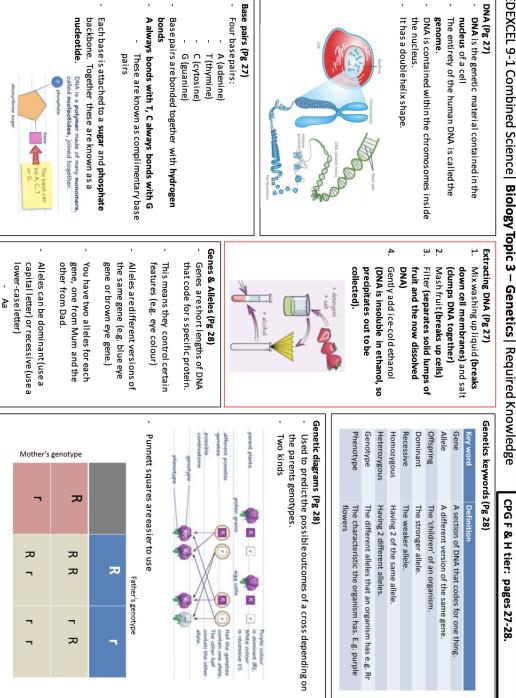
cilia move mucus away from lungs

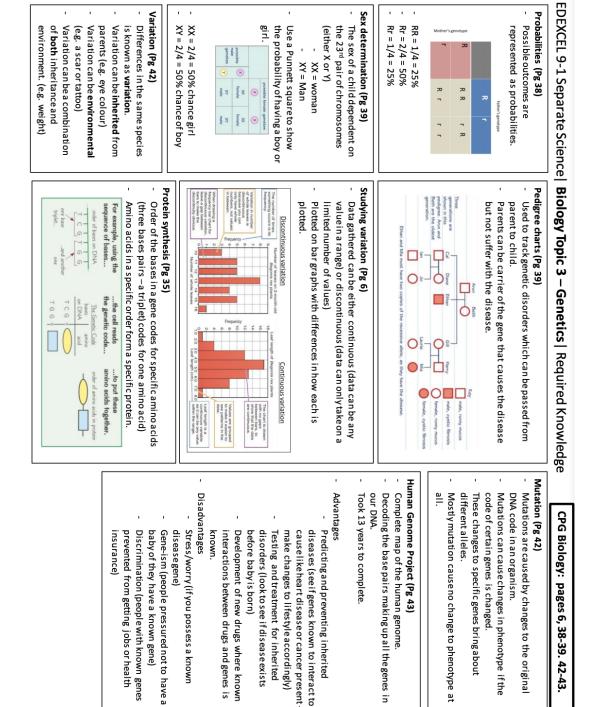




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EDEXCEL 9-1 Combined Science | Biology Topic 3 – Genetics | Required Knowledge





for inherited

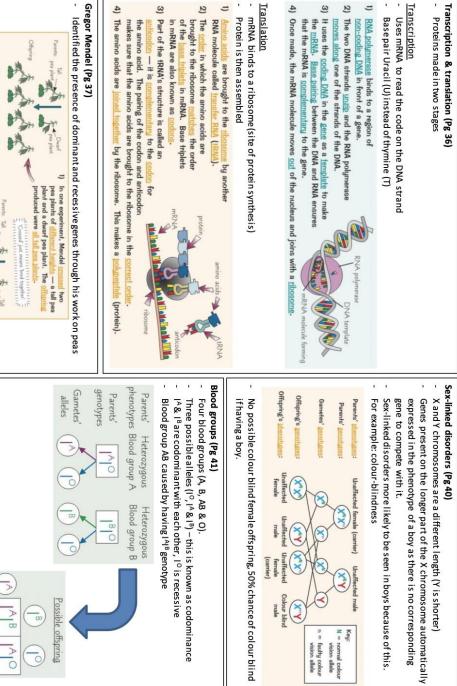
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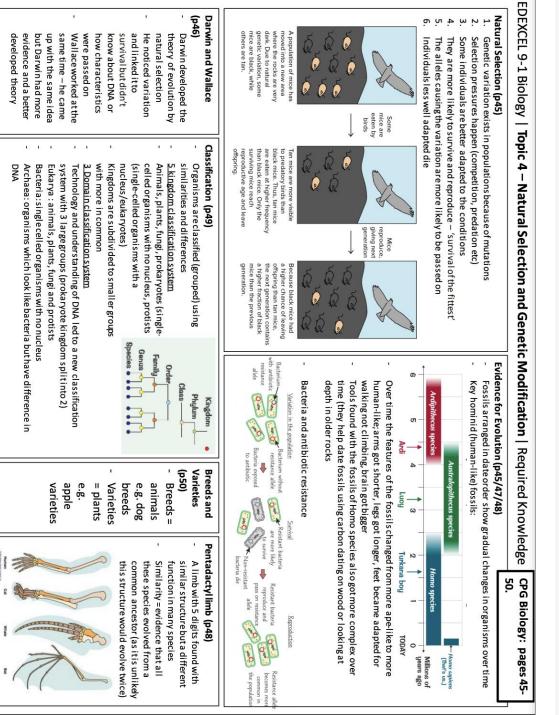
EDEXCEL 9-1 Separate Science | Biology Topic 3 – Genetics | Required Knowledge

CPG Biology: pages 36-37. 40-41.

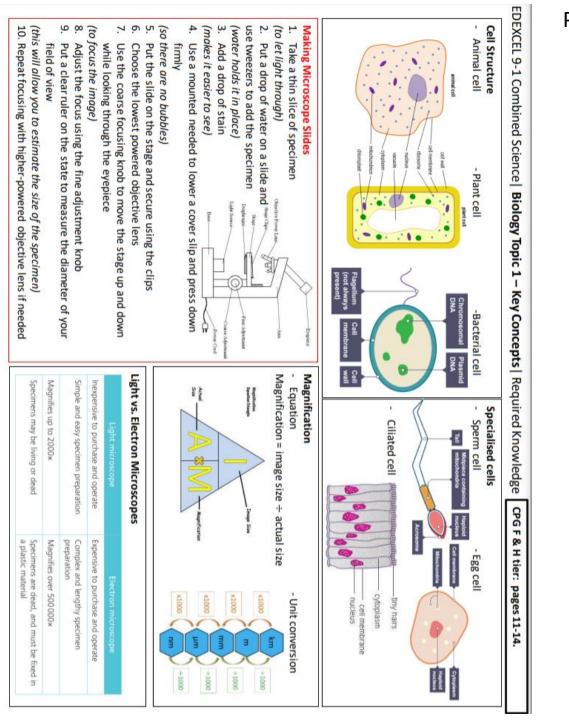


2) He then bred two of these tail offspring together. He found that when the offspring from the first cross were crossed with <u>such arb</u> three tail offspring average. In other words, he produced a <u>3 1 min</u> of tall : dwarf plants. -1 m Evidence for Evolution (p45/47/48) Key hominid (human-like) fossils: ⁻ossils arranged in date o der show gradual changes in organisms over time 50 CPG Biology: pages 45--0 A 1^B|O AIB ip B IA10 (That's us.) 00

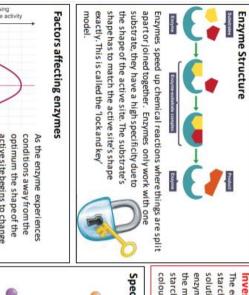
2)

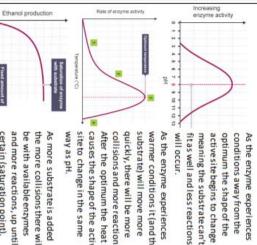


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EDEXCEL 9-1 Combined Science | Biology Topic 1 Key Concepts | Required Knowledge CPG F & H tier: pages 15-17





After the optimum the heat causes the shape of the active site to change in the same quickly, there will be more collisions and more reactions. As the enzyme experiences warmer conditions it (and the As more substrate is added way as pH. substrate) will move more

be with available enzymes and more reactions, up until a certain (saturation point), where all of the enzymes are already working at their the more collisi laximum rate ions there will

e.g.

into plant leaves

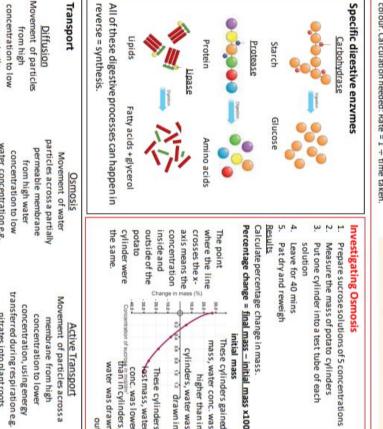
concentration g. carbon dioxide



starch has been broken down will the iodine stop changi colour. Calculation needed: Rate = 1 ÷ time taken. The enzyme amylase catalyses the break down or the starch into maltose (sugar). The enzyme is added to buffer solutions of different pHs. The time it takes for the enzyme to work is calculated by continuously sampling the mixture and adding it to iodine. Only when all of the the mixture and adding it.

buffer .

Street Street



These cylinders gained mass, water conc. was

cylinders, wa

ter wa

5

last mass, These cylinders tà tà drawnin higher than

, water

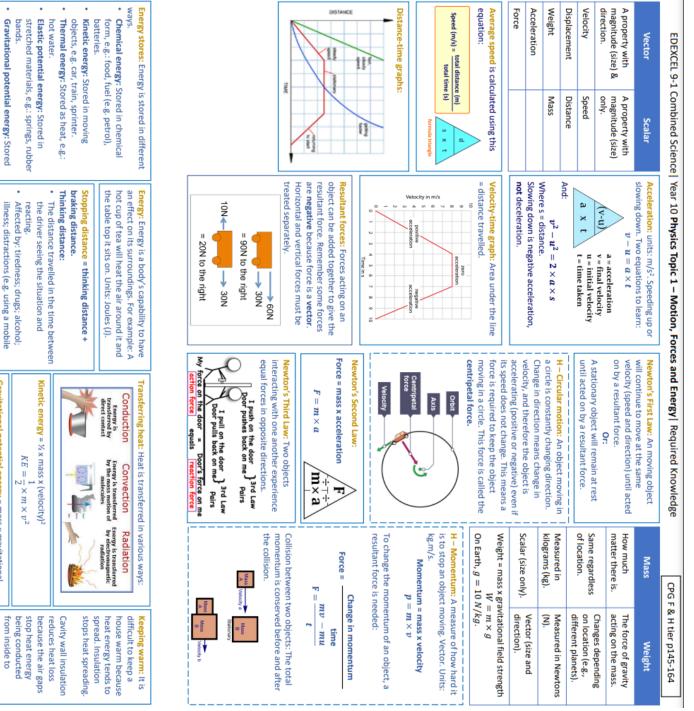
itial mass



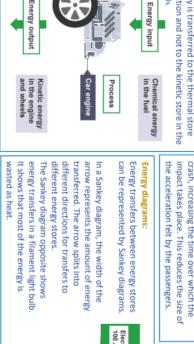
water concentration e.g. water into plant roots

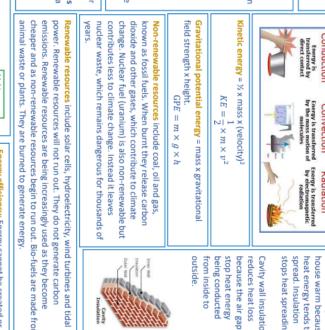
tra Active Transport Movement of particles across a membrane from high concentration to lower concentration, using energy ransferred during respiration e, nitrates into plant roots conc. was lower than in cylinders, water was drawn out

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Electrical energy 100 J Light energy 10 J lightbu

A lightbulb which consumes 100 J of electrical energy and outputs 10 J of light energy has an efficiency of 0.10. Efficiency =

Total energy transferred by the device

ulb) Useful energy transferred by the device

Energy efficiency: Energy cannot be created or destroyed. Some energy is transferred to the useful store (light in the case of the lightbulb). Some of the energy is transferred to a different store and is wasted (heat in the case of the



¿Cuál es tu asignatura

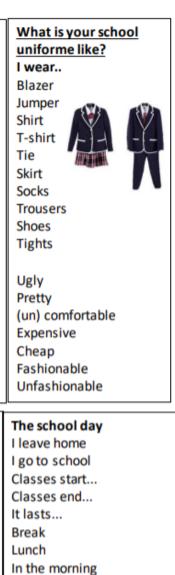
9.11 My school – vocab. list

¿Cuál es tu asignatura
favorita?
El inglés
El español
El francés
El teatro
El dibujo
El deporte
La informática
La música
La tecnología
La geografía
La historía
La religion
La educación personal y social
Las matemáticas
Las ciencias
Las humanidades
¿Qué Piensas?
Es
Interesante
Práctico
Útil
Ínutil
Fácil
Difícil
Aburrido
Emocionante
Creativo
Importante
Demasiado
Demasiado Muy

What is your favourite subject? English Spanish French Drama Art PE Computer Science Music Technology Geography History RE PSHE Maths Science Humanities What do you think? lt is Interesting Practical Useful Useless Easy Difficult Boring Exciting Creative Important Too Very Quite

¿Cómo es tu uniforme escolar? Llevo... Una chaqueta Un jersey Una camisa Una camiseta Una corbata Una falda Unos calcetines Unos pantalones Unos zapatos Unas medias Feo Bonito (in)cómodo Caro Barato De moda Pasado de moda La jornada escolar Salgo de casa Voy al insti Las clases empiezan... Las clases terminan... Dura... El recreo La hora de comer Por la mañana

Por la tarde



In the afternoon

¿ Cuáles son las reglas?	What are the rules?
(no) se debe	You must(n't)
(no) se puede	You can('t)
Hay que	You have to
Está prohibido	It is forbidden
Escuchar en clase	To listen in class
Usar el móvil en clase	To use your phone in class
Llevar joyas	To wear jewellery
Llevar maquillaje	To wear make up
Llevar zapatillas de deporte	To wear trainers
Dañar las instalaciones	To damage the facilities
Respetar el turno de palabra	To wait your turn to speak
Comer chicle	To chew gum
Hacer los deberes	To do homework
¿Qúe quieres hacer en el	What do you want to do in
futuro?	the future?
Aprobar mis exámenes	To pass my exams
Aprobar mis exámenes Sacar buenas notas	To pass my exams To get good grades
Sacar buenas notas	To get good grades
Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario	To get good grades To do an apprenticeship
Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario Viajar por el mundo	To get good grades To do an apprenticeship To look for a job
Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario	To get good grades To do an apprenticeship To look for a job To work as a volunteer
Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario Viajar por el mundo Tener hijos Casarme	To get good grades To do an apprenticeship To look for a job To work as a volunteer To travel the world To have children To get married
Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario Viajar por el mundo Tener hijos	To get good grades To do an apprenticeship To look for a job To work as a volunteer To travel the world To have children
Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario Viajar por el mundo Tener hijos Casarme Aprender a conducir	To get good grades To do an apprenticeship To look for a job To work as a volunteer To travel the world To have children To get married To learn how to drive
Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario Viajar por el mundo Tener hijos Casarme Aprender a conducir Médico/a	To get good grades To do an apprenticeship To look for a job To work as a volunteer To travel the world To have children To get married To learn how to drive Doctor
Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario Viajar por el mundo Tener hijos Casarme Aprender a conducir Médico/a Profesor(a)	To get good grades To do an apprenticeship To look for a job To work as a volunteer To travel the world To have children To get married To learn how to drive Doctor Teacher
Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario Viajar por el mundo Tener hijos Casarme Aprender a conducir Médico/a	To get good grades To do an apprenticeship To look for a job To work as a volunteer To travel the world To have children To get married To learn how to drive Doctor

Firefighter

Hairdresser

Vet

Bombero

Veterinario

Peluquero

Spanish

<u>9.11 My school</u> Knowledge Organiser

School – Subjects, uniform and time Future plans & jobs

	Cabot
r	Learning
	Federatio

The present tense	AR verb	ER verb	IR verb
yo (I)	-0	-0	-0
tu (you)	-as	-es	-es
él/ella (he/she)	-a	-е	-е
nosotros/as (we)	-amos	-emos	-imos
vosotros/as (you all)	-áis	-éis	- ís
ellos/ellas (they)	-an	-en	-en

The future tense in Spanish

You can talk about the future by using the near future tense. Use part of the verb IR + a + the infinitive to say what you are going to do.

Este tarde **voy a jugar** al tenis. *This evening I am going to play tennis.* Mañana Paul **va a hacer** un pastel. *Tomorrow Paul is going to make a cake.*

You can also use the following phrases with an infinitive to refer to the future.

Quiero = I want

Me gustaría = I would like

Quisiera = I would like

Espero = I hope

Adjectives describe nouns e.g. a black blazer.

In Spanish, adjectives normally go after the words they are describing e.g. una camisa azul (a blue shirt) and they have to agree with the noun they are describing.

Adjectives must agree with the noun (or pronoun) they describe in gender and in number.

This means that if the noun an adjective describes is feminine, the adjective must be feminine e.g. una chaqueta negra (a black blazer).

If that same noun is also plural, the adjective will be feminine AND plural as well e.g. las medias negras (black tights).

Comparatives - to express more or less than

- ... es más...adjective...que is more...adjective...than
- ... es menos ...adjectiveque is less ... adjective ... than
- ... es tan...adjective....como is as...adjective...as

For example:

El inglés es más interesante que la geografía. (English is more interesting than Geography)

La historia es menos activa que la educación física. (History is less active than PE)

El francés es tan difíil como las matemáticas. (French is as difficult as maths).

Paget Same	One image is called a	Year 9 Textiles Knowledge Orga	nise	c I	Textiles Hierarchy of Key words
	'motif'	About Designers			
Wong side of fabric	The motif has been repeated to make	Orla Kiely			
Hem Seam	two different patterns	Orla Kiely is known for her print designs inspired by her early childhood – the colours of the countryside and her home.		'Acad	Plain seam analyse
What is the difference between a hem and	*****	Kiely's design work lends itself to CAD for its repetitive style. Her original work was hand painted using gouache		Tie lemic'	sustainable embellishment
A hem is a neat non fraying edge made by folding fabric over and stitching it down. A		paint. 'Stem' is her most iconic print which consists of simple graphic strength – clean, measured and bold.		Tier 3 'Academic' keywords.	Woven/ bonded/ knitted
seam is a line along which pieces of cloth are joined by sewing.	plain repeat brick repeat pattern/ pattern offset repeat pattern	Kiely believes her work is never finished and can be re- worked several times until she is satisfied with the end result.		ords.	Free machine function embroidery develop
Equipment	Use		_		
Bobbin	A bobbin is a cylinder, to which cotton thread is wrapped around. It is found in the bottom part of a sewing machine.		most les	Valuable	Complementary colours contrast environment fastening
Overlocker machine	An overlocker does not replace a sewing	Laura Ashley	sons	Tier 2 keywor	compare embroidery
	machine. Its primary function is to clean finish a raw edge, giving the project a professional appearance	Print has been at the forefront of the Laura Ashley brand since it was first established when Laura Ashley started printing her own designs for head scarves.	most lessons every lesson.	Tier 2 Valuable keywords used in	equipment iron
Quick unpick	It is used to quickly remove stitches and	She went on to design dresses for social wear at the end of the 1960s. Her popular long Victorian-inspired dresses	son.	din	effect improve
	seams.	became known as the 'Laura Ashley look'. The business expanded into coordinated ranges of furnishing fabrics using natural materials such as cotton	=	5°	colour design shape
Tailor's chalk	Used to mark on to fabric. It is easily washed off.	and recycled paper for wallpaper.	in almost every lesson	Tier 1 Basic keywords used	machine pattern line Texture theme tone
Measuring Tape	It is a flexible ruler that can be used for body measurements, tailoring and dressmaking. It is flexible to measure fabric and curves of the body.		esson.	used	thread Fabric sew

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Textiles

Questions and activities – hints and tips

Summarising a lesson:

Answer the following questions to help you summarise your learning in a lesson. This will help you recap and think again about your learning, and will be useful to look back on in the future.

- What key words did you use in the lesson?
- Can you define those key words and use them in a sentence?
- What new content did you cover?
- How does this link to your previous learning?
- Can you summarise your learning into one sentence?

Revision:

If you have an assessment approaching, you could create some revision material based on your knowledge organiser.

Can you get down the key information in a spider diagram?

Can you use diagrams, pictures, symbols etc to recall your knowledge?

Knowledge quizzes:

Create a set of questions using the information from your knowledge organiser, or from your lesson.

You could make them about key words, and maybe even give multiple choice answers.

Go over the questions you keep getting wrong.

Try the questions out with those at home, or maybe your teacher could use them for their starter quiz in class.

Keyword Development:

Practise the spellings of key words. Use the lookcover-write-check method to help you.

Can you explain what the key words mean?

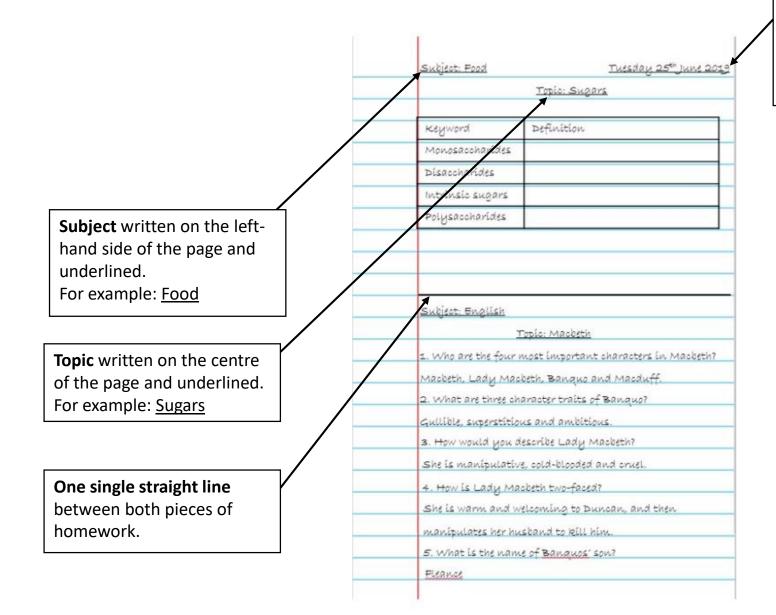
Can you link the key words together?

Copy out the key words with their definitions.

What might it look like?

Geography Topic: Our Place n Ne World Thursday 14 October Lesson Summary:	Lesson summary:
Longitude - the distance, in degrees, E & W of the low Meridian. Latitude - the distance, in degrees, N or S of the Equator.	Science Topic: Cells Monday 28th September
Today we loant about how the world is divided up using lives of latitude & longitude. The Equator is an 0° latitude, and the poles are go N ts.	knowledge Quiz: 1.) what is the name of the part of the microscope where the specimen
This links to our previous learning because now I can say where the contents are using longitude to latitude to find them on 2 map	2) Nov many cells are ner in a "unicellular" organism?
Knowledge Quiz:	A=" ONE 3.) What does the 'cell membrane' do?. A = controls movement of substances in t at at the cell 4.) Where does photosynthesis take place in a cell? A = Chloroplast 5.) Malt is the function of the red blood cells? A= to carry oxygen

How to present your homework:



Date written fully on the right hand side of the page and underlined – this should be the day you complete the homework.