Knowledge Organiser 3

Spring Term: 2024-25

Master Copy Name:

Registration Form: 9

Bournemouth School

Knowledge Organiser 3: Year 9 Spring Term

'Knowledge is power' by Francis Bacon

A knowledge organiser provides you with all the most important knowledge you need for each unit of study this half term. Your aim is to transfer all of this information into your long-term memory so you can use it in your lessons and further expand your understanding of this work.

How to use your knowledge organiser (KO):

- 1. Ensure you have your KO and Homework Learning journal with you at all times in school and when you need to do your homework at home.
- 2. In lessons when you have covered information that appears on your KO, your teacher will ask you to put a tick next to that section. This means that is now added to what you must learn for homework.
- 3. Initially, follow your homework timetable to decide what to revise each evening.
- 4. There are 4 strategies that you can use to revise. They are progressively more challenging so always start with the first in the list.

a. Look Cover Write Check

- i. Identify the subject and section of your KO that you want to revise. This should be one of the ticked sections.
- ii. LOOK carefully at the subject and section of your KO you want to revise and try to remember as much as you can. Remember this should be a ticked section.
- iii. Now COVER this information so you can't read it.
- iv. WRITE out what you can remember word for word in your Homework Learning Journal.
- v. CHECK what you have written by comparing it to your KO. Tick each correct word in green pen and correct any errors you have made.
- vi. Repeat this process until you are confident you can remember everything you need.

AIM:

You should be able to repeat the information by rote

b. Self or peer quizzing

- i. Identify the subject and section of your KO that you want to revise. This should be one of the ticked sections.
- ii. Write out a list of questions you could ask either yourself or a friend about this section of the KO. Write these in your Homework Learning Journal.
- iii. If you are working on your own, cover the KO and write a full answer to each question.
- iv. If you are working with a partner swap books and copy down their questions and have a go at answering them.
- v. Now uncover the KO and with a green pen correct your work.

AIM:

You should be able to repeat the information by rote but with a good understanding

c. Playing with words and sentences

i. Identify the subject and section of your KO that you want to revise. This should be one of the ticked sections.

- ii. You now want to check how well you have learnt the information in your KO.
- iii. Definitions look at words that are used in this section. Can you write a definition in your own words?
- iv. Rephrasing can you rewrite the sentences or explanations in your own words?
- v. Summary can you summarise the main points of this section of the KO?
- vi. Synonyms can you write synonyms for key words and ideas?
- vii. New Sentences can you write a sentence that includes the key vocabulary or definitions that you have learnt?

AIM

You should be able to use the information in your KO in a flexible and confident way in your writing.

d. Think it, Link it

- i. This is a technique to use towards the end of the half term when you are revising all of the KO.
- ii. Think of the links or connections between different sections of your KO.
- iii. Write these out in your own words in your Homework Learning Journal.
- iv. Think about the links between a particular section of your KO and what you have learnt in your lessons. Can you expand on this section by linking it to your wider knowledge?
- v. Write this out in your Homework Learning Journal.

AIM

You should be able to link your homework and your lessons to show a confident understanding of the work covered.

Homework Learning Journal

- 1. Always write the subject and the date when you start your homework.
- 2. Always write the strategy that you are going to use for your homework.
- 3. Always use a ruler to underline titles and dates.
- 4. Use a blue or black pen to complete your homework or a pencil if you need to draw.
- 5. Use a green pen to complete corrections of your work.
- 6. You are expected to complete half a side of your Homework Learning Journal each evening as a minimum.

Checking:

Your tutor will check your Homework Learning Journal at least once a week. If they are concerned that you aren't doing your homework properly they will offer support and guidance. If you don't respond to this guidance you will be added to the afterschool 'Success club' where a member of staff will help you complete your homework.

DO NOW tasks:

At the start of every lesson you should expect a Do Now task. This is a low stakes retrieval quiz on what you have learnt so far. If you have completed your homework this should be easy. The aim is to get 100% in each of these. If you miss this target occasionally, don't worry. If it happens regularly your teacher will ask your tutor to have a chat and offer you support.

Maths:

Your teacher will set you tasks to complete on Dr Frost Maths. This will be set every week on a Monday and will be collected in and checked on a Friday. If this has not been completed you will be issued a Detention on a Wednesday Lunchtime.

How long should I spend on my homework?

	Key Stage 4					
			Week 1			
Time	Monday	Tuesday	Wednesday	Thursday	Friday	
5 mins	MFL	MFL	Physical	MFL	MFL	
10	Maths	English	Activity	Maths	English	
10	Biology	RS		Chemistry	Physics	
10	Option C	Option D		Option A	Option B	
55	Reading /	Reading /		Reading /	Reading /	
	Revision	Revision		Revision	Revision	
			Week 2			
Time	Monday	Tuesday	Wednesday	Thursday	Friday	
5 mins	MFL	MFL	Physical	MFL	MFL	
10	Maths	English	Activity	Maths	English	
10	Biology	RS		Chemistry	Physics	
10	Option C	Option D		Option A	Option B	
55	Reading /	Reading /		Reading /	Reading /	
	Revision	Revision		Revision	Revision	

- You should spend about 35 minutes revising your KO each day.
- You should spend 25 minutes either reading or revising each day.
- This timetable is a guide. If you want to spend longer revising one subject that you find more difficult and less time on one you find easy, that is your choice.
- We would like you to spend one evening involved in a physical activity. This might be a sports club, a run, a game of football with friends or just a nice walk with the dog. Ask your PE teacher if you need guidance with this. It doesn't have to be on a Wednesday.

		Topic Vocabulary			Formal Elements		
49	Apocalyptic	world or significant catastrophic events. Often explored in literature and film, these themes delve into survival, societal collapse, and the human condition	0	Line	Line is a mark that connects two points and can be straight, curved, thick, or thin. It helps to define shapes and direct your eye around the artwork.	0	
CSE	Vandalism	Vandalism is the deliberate destruction or defacement of property belonging to another person or organization. This act is considered a criminal offense and reflects a disregard for community standards and respect for others'	shape Shape is a flat area created when lines meet, and simple like a circle or square, or more complex lilerson or organization. This act is considered a criminal offense of a leaf. Shapes can be geometric (like triangles)		Shape is a flat area created when lines meet, and it can be simple like a circle or square, or more complex like the outline of a leaf. Shapes can be geometric (like triangles) or organic (like the shape of a cloud).	0	
O	Abandoned	belongings. The term "abandoned" describes properties or objects that have been		Form	Form is what gives an object three-dimensional qualities, meaning it has depth, width, and height.		
chitecture	deserted and are no longer maintained or used. Such sites can evoke a sense of neglect but may also present opportunities for revitalization or creative exploration.		O	Colour	Colour is what we see when light hits an object and reflects back to our eyes. Artists use different colours to create feelings, highlight important parts of their work.	0	
tec	Graffiti	Graffiti is a form of visual art created by marking or painting on public surfaces, often using spray paint. While it can be seen as vandalism, many view it as a legitimate art form that expresses social and political messages.	0	Texture	Texture is how something feels or looks like it would feel if you touched it. It can be rough, smooth, soft, or hard.	0	
rchi	Antiquity	Antiquity refers to the ancient past, especially the time of early civilizations like the Egyptians, Greeks, and Romans. It includes both the historical period before the Middle Ages and the valuable artifacts that have survived from	0	Value	Value refers to how light or dark a colour is. Artists use value to create contrast and depth, making some parts of their artwork stand out while others recede into the background.	0	
$ \overline{4} $	Dishataaaa	these cultures.		Space	Space is the area around and between objects in an artwork. It includes both the space that is filled with things (positive space)		
Jn-	Dichotomy	Dichotomy in art means showing two different and often opposing ideas in one artwork, which makes viewers think about both what they see. This approach encourages people to look deeper and consider more complex	ork, which makes viewers think about both what they see. This		and the empty areas around them (negative space), which helps	O	
esig	Auchite et	meanings instead of just taking things at face value. For example Rich/Poor			Key Artists		
Ое	Architectur	Architecture is both the process and the product of planning, designing, and constructing buildings or other structures. Architectural works, in the material form of buildings, are often perceived as cultural symbols and as works of art.	0	lan Murphy	lan Murphy is a British fine artist known for his atmospheric mixed media artworks that explore architectural landscapes,		
∞		Techniques			focusing on decaying urban environments and capturing intricate textures through layered, dramatic compositions. His work blends drawing, painting, and mixed media techniques.		
Craf		Collage is an artistic technique where various materials, such as paper, photographs, and fabric, are assembled and glued onto a surface to create a new composition. This method allows artists to combine different elements and styles, resulting in unique visual narratives.		Lucy Jones	Lucy Jones is a mixed media artist based in Edinburgh, known for her unique "building portraits" that blend collage, paint, and recycled materials. Her work combines old maps and books to tell rich visual and literary stories about the city's	0	
t		Mixed media refers to an art form that incorporates multiple materials and techniques within a single artwork, such as combining painting, drawing, collage,	0	lohn	architectural heritage.		
◀		and found objects. This approach encourages creativity and experimentation.		John Piper	John Piper was a British artist renowned for his mixed media works focusing churches and war-damaged buildings. He combined techniques like painting, printmaking, collage, and		
	Systems	Drawing Drawing systems refer to the methods used to produce drawings and the materials employed in the drawing process. For example an architect might use a combination of hand drawn techniques and digital tools.			stained glass. He captured the essence of place and historical transformation.		
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Assessment Objectives - This is how you are marked for coursework and Exam. There are 24 marks to gain for each AO. 60% of your GCSE mark is coursework and 40% is your exam mark.



GCSE Y9

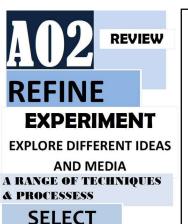
Design

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Craft

Artist research pages.

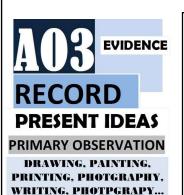
- Visits to exhibitions and galleries.
- Your own responses in the style of the artist.
- Interviews with artists/ photographers.
- Annotate and analyse what you have found out.



IMPROVE

Experimenting in response to your chosen artists.

- Use relevant materials and techniques to experiment with
- Experiment with new materials, tools and techniques as well as familiar ones.
- Try out different combinations of media and techniques
- Practise and refine your use of your chosen media, tools and techniques



DIFFERENT MEDIA

ANNOTATE

Title page.

- Mind Map.
- Mood-boards.
- Bullet points
- Notes
- Longer paragraphs
- Photographs.
- Observational drawings
- Sketches
- Designs
- Diagrams
- Editing on Photoshop



DEVELOPED AS PLANNED

CLEARLY RESPONDS TO ARTISTS EXPLORED

CONNECTION

CONCLUSION

Plans and drawings of final piece ideas.

- Mini mock-ups and experiments for final piece.
- Creating an original final piece, that is clearly inspired by your research and creative journey.
- Evaluation of final piece (how does your piece link to the project theme?)

Scan here for more information



B2a Organisation and Digestion

Levels of org	anisation: cell → tissue → organ → organ system →organism	1
Cell	The smallest unit for building all organisms e.g. muscle cell	
Tissue	A group of similar cells which work together to do a particular job e.g. muscle tissue	
Organ	A group of different tissues, which all work together to do a particular job e.g. heart	
Organ system	A group of different organs, which all work together to do a particular job e.g. circulatory system	
Organism	A living thing (capable of the 7 life processes)	

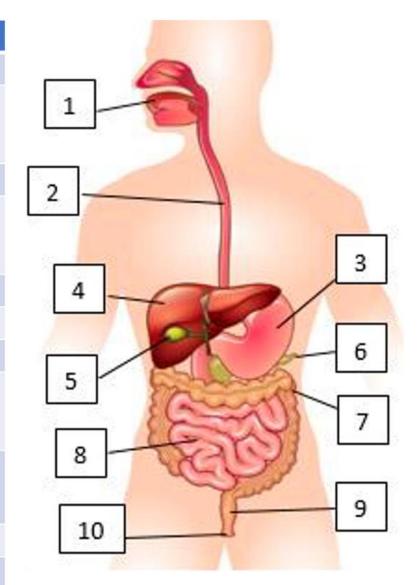
Lo	ck and key model	✓
#	Description	
1	Substrate	
2	Active site	
3	enzyme	
4	products	

Food tests				
Food type	test	Positive result		
Starch	iodine	Blue/black		
Protein	Biuret's solution	Purple		
Sugar, including glucose	Heat with Benedict's solution	Red		

Digestive enzymes				✓	
Enzyme	Site of production	Site of action	substrate	product	
Carbohydrase e.g. amylase	Salivary glands, pancreas and small intestine wall	Mouth, small intestine	Carbohydrates e.g. starch	Simple sugars e.g. glucose	
Protease	Stomach, pancreas and small intestine wall	Stomach, small intestine	Proteins	Amino acids	
Lipase	Pancreas and small intestine wall	Small intestine	Lipids	Glycerol and fatty acids	

B2a Organisation and Digestion

Part	s of the digestive sy	ystem	√
#	Organ	Function	
1	Mouth	Mechanical digestion by chewing. Saliva from salivary glands, contains the enzyme amylase	
2	Oesophagus	Muscular tubing where peristalsis takes place	
3	Stomach	Mechanical digestion by churning. Cells in the lining of the stomach release acid to kill bacteria and produce the enzyme protease	
4	Liver	Produces bile	
5	Gall bladder	Stores bile	
6	Pancreas	Produces digestive enzymes	
7	Large intestine	Absorbs water from waste back into the bloodstream	
8	Small intestine	Chemical digestion; larger molecules are broken down into small soluble molecules which are absorbed into the blood	
9	Rectum	Stores faeces	
10	Anus	Ring of muscle allowing faeces to exit the body	



GCSE BUSINESS Business in the real world

	The purpose of business planning	N		
The main reasor	The main reasons why a business creates a business plan are:			
Importance in setting up a new business	Lots of decisions to make – planning decisions can help to gather good quality information to help anticipate problems.			
Raising finance	Potential investors will want to know how any money invested will be spent.			
Setting objectives	Everyone in the organisation has a clear target			
How functions of a business will be organised	Marketing, Finance, Operations and HR will all be clearly organised to achieve the success outline in the business plan.			

Basic Financial calculations	
Revenue = Sales x price	
Total costs = total fixed costs + total variable costs	
Profit = Revenue – Total costs	
If this is a negative figure it will be defined as a 'loss'.	

	Evaluation		
Benefits	 Help businesses to raise finance Organise resources Motivate employee s 		
Drawbacks	Uncertainty Lack of experience Opportunity cost Too optimistic		

Topic 3.1.6 Business Planning

	Basic financial terms		
Variable costs	Costs that vary with output		
Fixed costs	Costs that do not change when a business changes their output		
Total costs	Fixed costs plus variable costs		
Revenue	The income a business receives from selling goods and services.		
Profit	The difference between revenue and costs over a period of time.		

The main sections within a business plan	N N
Most business plans include the following sections:	
1. Personal details	
2. Mission Statement	
3. Objectives	
4. Product Description	
5. Production Details	
6. Staffing requirements	
7. Finance	

Output

GCSE BUSINESS Business in the real world

	Definitions	
Organic (Internal) Growth	When a business grows by expanding its own activities	2007
External (Inorganic) growth	Growing the business by working with other businesses	
E-commerce	The act of buying or selling a product using an electronic system such as the internet	
Outsourcing	When a business uses another business to carry out tasks	
Franchisee	The entrepreneur who buys the right to trade under the name of the franchisor.	
Franchisor	The original business owner who sells a franchise.	
Franchise	When a franchisor sells the rights to its products to a franchisee.	
Merger	When two or more businesses join together to form a new business	
Takeover	When one business buys control of another.	

Methods of expansion		
Organic growth:	External Growth:	
E-commerce	Merger	
Opening new stores	Take over	
Outsourcing		
Franchising		

Benefits and drawbacks of expansion		N
Benefits:	Drawbacks:	
Economies of scale	Risk of diseconomies of scale	
Greater market power	Slower decision making	
Reduced risk of takeover	Demotivated staff	
Image	Expensive	

Economics a	Economies and Diseconomies of scale		
Economies of scale:	Diseconomies of scale:		
As output increases average unit cost falls	Average unit cost increases as output increases		
Types: Causes: Purchasing Poor communication Technical Poor coordination Managerial Poor control			
Costs & Revenue			

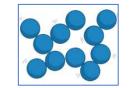
Chapter 2 - Bonding, Structure and Properties of Matter

Chapter 2 – Bonding, Structure and Properties of Matter		
Keyword	Learn	✓
Allotrope	Different physical forms in which an element can exist. Graphite, charcoal, and diamond are all allotropes of carbon	
Covalent bond	Sharing of pairs of electrons between two non-metal atoms, giving each a full outer shell of electrons	
Electrostatic forces	Forces of attraction between oppositely charged particles.	
Giant Ionic Lattice	A regular 3-D arrangement of alternating positive and negative ions held together by strong electrostatic forces of attraction	
Intermolecular forces	Forces which exist between covalently bonded molecules. The strength of the intermolecular forces impact physical properties like boiling/melting point.	
Ion	An atom or molecule with an electric charge due to the loss or gain of electrons.	
Ionic bond	Strong electrostatic force of attraction between oppositely charged ions.	
Ionic compound	Chemical compound formed of ions arranged in a giant lattice, held together by strong electrostatic forces.	
Metallic bond:	Strong electrostatic force of attraction between positive metal ions and delocalized negatively charged electrons.	

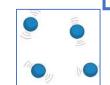
States of Matter – you must be able to represent as particle diagrams



Particles hold a regular arrangement and vibrate in fixed positions – have the least amount of energy. Solids are not compressible.



Particles are arranged randomly, close together and are able to move past each other. Liquids are not compressible.



Particles are relatively spread out, move randomly in all directions and have most energy. Gases are compressible. Giant Ionic Lattices – you must be able to draw electron transfer diagrams to represent the formation of ionic bonds

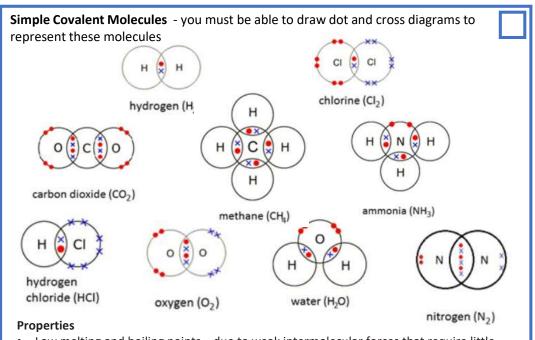
A metal atom loses electron(s) to form a positively charged ion and a non-metal gains these electron(s) to form a negatively charged ion.

Forms a 3-D structure – a giant ionic lattice e.g. sodium chloride

Sodium ions

Properties

- High melting and boiling points as a lot of energy is needed to overcome the strong electrostatic attraction between positive and negative ions
- Conduct electricity only when molten or dissolved in water because the ions are free to move and carry charge. Ions are not free to move in solid ionic substances.



- Low melting and boiling points due to weak intermolecular forces that require little energy to overcome
- Do not conduct electricity contain no charged particles that are free to move

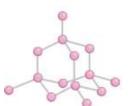
Chapter 2 – Bonding, Structure and Properties of Matter

Giant Covalent Structures – you must be able to recognise these diagrams



Silicon dioxide (silica), Formula SiO₂

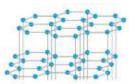
- High melting and boiling point. Many strong covalent bonds between Si and O atoms require large amount of energy to break
- Does not conduct electricity. No charged particles free to move through structure and carry charge



Allotropes of Carbon

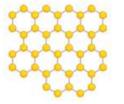
1. Diamond, Formula C

- High melting and boiling point. Hard. Each C atom bonded to 4 others in tetrahedral shape. Many strong covalent bonds between atoms require large amount of energy to break
- Does not conduct electricity. No charged particles free to move through structure and carry charge



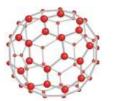
2. Graphite, Formula C

- High melting and boiling point. Each C atom bonded to 3 others in hexagonal shape. Many strong covalent bonds between atoms require large amount of energy to break
- Soft. Weak forces of attraction between layers easily broken
- Good electrical conductor. Delocalised electrons free to move through structure and carry charge



3. Graphene, Formula C

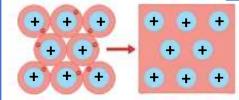
- Single layer of carbon atoms arranged as in graphite.
- Melting and boiling point as for graphite
- Conductivity as for graphite
- Forms strong, flexible sheets which are transparent



4. Fullerenes and Nanotubes, Formula C_n

- Macromolecules, e.g. Buckminsterfullerene C₆₀, with carbon atoms bonded in hexagons & pentagons
- Open cage structures useful in drug delivery systems
- Spherical molecules can roll so useful as lubricants
- Long tube structures form strong lightweight carbon fibres with good electrical conductivity

Giant Metallic Structures



Giant Metallic Structure = layers of positive metal ions surrounded by a sea of delocalised electrons

- High melting and boiling points. Strong attraction between positive ions and negative delocalised electrons
- Good electrical conductors. Delocalised electrons are free to move through the structure and carry charge.
- Malleable and ductile. Layers of ions can slide over each other

Alloys

Alloy = mixture of a metal with one or more other metals or non-metals

- Can be designed with specific improved properties, e.g. corrosion resistance (stainless steel) or hardness (tungsten steel)
- In an alloy, there are atoms of different sizes. The smaller or bigger atoms distort the layers of atoms.
- The layers do not slide over each other as easily so alloys are usually harder and stronger than the pure metal.

Polymers

Polymer = Large long-chain molecule made up of lots of small molecules (monomers) joined together by covalent bonds.

Thermosoftening Polymers

- Easy to recycle as they soften and melt when heated can be remoulded
- Polymer chains held together by weak intermolecular forces of attraction – require little energy to overcome

Thermosetting Polymers

- Suitable for saucepan handles as they do not soften and melt when heated
- Polymer chains held together by strong covalent bonds (crosslinks) so require lots of energy to break

Nanoparticles

Nanoparticle = Particle between 1 and 100 nanometres in size

- Usually contain only a few hundred atoms
- High surface area to volume ratio gives properties different from those for the same materials in bulk so smaller quantities are needed

Name of Particle	Diameter
nanoparticle	1-100nm
fine particles (PM _{2.5})	100-2500nm
coarse particles (PM10)	2500-10000nm

- As particle size decreases, surface area **increases** in relation to volume
- e.g. As the side of a cube decreases by a factor of 10, the surface area to volume ratio increases by a factor of 10



2.2 Programming Fundamentals

Keyword	Definition / Example			✓
Subprogram	Small programs that are written within a larger, main program.			
Procedure	A subprogram that performs a specific task.			
	Python OCR Ref.			
	<pre>def add(num1, num2): answer = num1 + num2 print(answer)</pre>		ocedure add(num1, num2) answer = num1 + num2 print(answer) dprocedure	
Function	A subprogram that performs a s	specif	ic task and returns a result	
	back to the main program.			
	Python	OCF	R Ref.	
	def add(num1, num2): answer = num1 + num2 return answer		action add(num1, num2) answer = num1 + num2 return answer Ifunction	
Parameter	Variables declared when you de	efine a	a subprogram.	
Argument:	A value sent to a subprogram when it is called.			
Random	To generate a random number between two values.			
	Python		OCR Ref.	
	rand = random.randint(1,10) rand = random(1,10)			

2.2 Programming Fundamentals

Keyword	Definition / Ex	kample	
String manipulation	phrase = "Com	nputer Science"	
		Code	Value
	Python	len(phrase)	16
	OCR Ref.	phrase.length	
		Code	Value
	Python	phrase[3:8]	"puter"
	OCR Ref.	phrase.substring(3,5)	
		Code	Value
	Python	phrase.upper()	"COMPUTER
	OCR Ref.	phrase.upper	SCIENCE"
		Code	Value
	Python	phrase.lower()	"computer
	OCR Ref.	phrase.lower	science"



Year 9 Power and Conflict (Spring 1)

Introduction structure	Example	✓
Identify the key word in the question and say how both poems explore this.	is explored in both (named poem - 1) and (chosen poem - 2).	
If necessary develop this idea with a second sentence.	Both authors	
Now say how both poems do this uniquely.	While (Poem 1), (Poem 2)	

uniquely.		
•	-	
What to include in a comp paragraph	arative	✓
Clear point linked to the ques	tion	
Use evidence to support ideas	S	
Identify a technique		
Use subject terminology		
Analyse the poet's intentions, messages in using specific tec		
Link to context		
Use comparative connectives		

Themes	Poems – remember, there's subthemes within these!	✓
Power of humans	Charge of the Light Brigade, War Photographer, Kamikaze, Emigree, Ozymandias, Storm on the Island, London, My Last Duchess, Tissue	
Power of nature	Bayonet Charge, Exposure, Kamikaze, Ozymandias, Prelude, Storm on the Island, Tissue	
Negative emotions	Bayonet Charge, Exposure, Remains, War Photographer, Poppies, Prelude, London, Checking Out Me History	
Loss and absence	Exposure, Charge of the Light Brigade, Remains, Poppies, Kamikaze, Emigree, My Last Duchess	
Effects of conflict	Bayonet Charge, Exposure, Charge of the Light Brigade, Remains, War Photographer, Poppies, Kamikaze, Emigree, Storm on the Island	
Memory	Charge of the Light Brigade, Remains, Poppies, Kamikaze, Emigree, Ozymandias, Prelude, My Last Duchess, Checking Out Me History	
Internal conflict	War Photographer, Kamikaze, Emigree, Checking Out Me History, Remains, Poppies, Bayonet Charge, London	
Identity	Remains, Kamikaze, Emigree, Checking Out Me History, Tissue	
Individual experiences	Bayonet Charge, Exposure, Remains, War Photographer, Poppies, Kamikaze, Emigree, Ozymandias, Prelude, London, My Last Duchess, Checking Out Me History	
Reality of conflict	Bayonet Charge, Exposure, Charge of the Light Brigade, Remains, War Photographer, Poppies, Emigree,	

Assessment objectives	✓
 AO1: make meaningful comparisons between two poems Be able to use quotations to support your ideas. 	
 AO2: use subject terminology & analyse the effect of the writer's techniques 	
AO3: demonstrate knowledge of context and compare contexts between	

two poems

Comparative terminology (addition)	Comparative terminology (opposition)	✓
Similarly,	Conversely,	
Likewise,	However,	
In addition,	In contrast,	
In the same way,	On the other hand,	
In a similar manner,	Yet but	
Equally,	Whereas,	
As with	Alternatively,	



Year 9: 19th Century Short Stories

Glossary 1		✓	Glossary 2		✓	Context	Description	✓
Term	Definition		Term	Definition		Arthur Conan	A British writer and doctor who created the character of	
Convention	How something is usually done.		Syntax	Arrangement of words.		Doyle	Sherlock Holmes. He wrote four novels and fifty-six short stories about Holmes and Dr Watson.	
Red Herring	A misleading clue.		Postnatal	The time after childbirth.		Mystery genre	Population and therefore crime rises meant the public	
Metropolis	Large/ busy city.		Bioterrorism	Using chemical			were interested in how the police solved crimes.	
Pitiable	Poor/ small.			substances as weapons.		Victorian	Appeared respectable and orderly in society. Sherlock	
Dog-cart	Large four wheeled carriage.		Parody	A funny, exaggerated imitation.		Gentleman Science	Holmes was an example of what people aspired to. Technology was advancing, eg. Fingerprinting techniques.	
Defray	Provide money to pay.	H	Hearken	Listen.		Science	These featured more in literature.	
Manifold	Many and various.		Dissimulation	Concealing our thoughts/ feelings.		Edgar Alan Poe	Suffered from depression and substance misuse. His work captures the darker parts of his personality.	
Dissolute	Overindulging in pleasures.		Sagacity	Being wise.		Penny	Little books that were cheap to buy and very popular for	
Squire	A man of high social	H	Audacity	Taking bold risks.		dreadfuls	their stories that involved blood and gore, as well as	
Squire	standing.		Trifles	Something unimportant.		Mantal III.	scandals.	
Morose	Sullen/ ill-tempered.					Mental illness	People feared mental illness as a threat to public safety, so asylums were opened to contain these people.	
Bequeathed	Leave something to		Felicity	Intense happiness.		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Manage was a standard fallow the sign bush on the control of	
	someone.	Congenial		Pleasing to one's tastes.		Women's rights	Women were expected to follow their husband's opinions, and only earned the right to vote fully in 1928.	
Delirium	Disturbed state of mind.	Ш	Arbors	Like a pergola, a frame.				
Livid	Furiously angry.	Ш	Satire	Style of writing where		Charlotte Perkins Gilman	Suffered with postnatal depression and didn't receive good treatment (like many women at the time). She was	
Zest	Great enthusiasm and energy.			human foolishness is mocked			an advocate for women's social reform.	
Masonry	Stonework.	П	Scrutinising	Examine/inspect closely.		Bioterrorism	Because of the advances in Science, people were afraid of the possibility of using biochemical weapons for terrorism	
Tangible	Something you can						purposes.	
	touch.	Ш	Chiefly	Mainly.		Religion	The Victorians were deeply religious and feared new	
Vigil	Being awake when usually asleep.		Pestilence	A fatal epidemic disease.			scientific advancements as an opposition to their beliefs.	
Circumlocution	Using too many words unnecessarily.		Exaltation	A feeling of extreme happiness.		H.G. Wells	A pioneer in the science genre, he was heavily respected as a writer because his work was stimulating.	

Name: Date:

Gelatinisation

Food science

Functions of ingredients

Ingredients provide a variety of functions in recipes.- Coating, Binding, Glazing, Thickening, Emulsifying, Gelatinising.

Carbohydrate, protein and fat

Carbohydrate, protein and fat all have a range of properties that make them useful in a variety of food products.

Carbohydrates perform different functions in food.

They can:

- help to cause the colour change of bread, toast and bakery products (dextrinisation);
- contribute to the chewiness, colour and sweet flavour of caramel:
- thicken products such as sauces and custards (gelatinisation).

Maillard reaction

Foods which are baked, grilled or roasted undergo colour, odour and flavour changes. This is primarily due to a group of reactions involving amino acids (from protein) and reducing sugars.

Dextrinisation

When foods containing starch are heated they can also produce brown compounds due to dextrinisation.

Dextrinisation occurs when the heat breaks the large starch polysaccharides into smaller molecules known as dextrins which produce a brown colour.

Caramelisation

When sucrose (table sugar) is heated above its melting point it undergoes physical and chemical changes to produce caramel.

Shortening- When fat is used in making rubbed in mixtures such as pastry, biscuits, scones and cakes, it coats the grains of flour this gives it a waterproof coating and prevents the gluten in it from developing. This means the finished product will have a short crumbly texture.

When starch is mixed with water and heated, the starch granules swell and eventually rupture, absorbing liquid, which thickens the mixture. On cooling, if enough starch is used, a gel forms.

Proteins perform different functions in food products. They:

- aerate foods, e.g. whisking egg whites;
- thicken sauces, e.g. egg custard;
- bind ingredients together, e.g. fishcakes;
- form structures, e.g. gluten formation in bread;
- gel, e.g. lime jelly.

Gluten formation

Two proteins, gliadin and glutenin, found in wheat flour, form gluten when mixed with water. Gluten is strong, elastic and forms a 3D network in dough. In the production of bread, kneading helps untangle the gluten strands and align them. Gluten helps give structure to the bread and keeps in the gases that expand during cooking.

Gelation

Gelatine is a protein which is extracted from collagen, present in animal connective tissue. When it is mixed with warm water, the gelatine protein molecules start to unwind. On cooling, a stable, solid network is formed, trapping the liquid.

Denaturation

Denaturation is the change in structure of protein molecules. The process results in the unfolding of the protein's structure. Factors which contribute to denaturation are heat, salts, pH and mechanical action.

Coagulation

Coagulation follows denaturation. For example, when egg white is cooked it changes colour and becomes firmer (sets). The heat causes egg proteins to unfold from heir coiled state and form a solid, stable network.

Aeration

Products such as creamed cakes need air incorporated into the mixture in order to give a well-risen texture. This is achieved by creaming a fat, such as butter or baking spread, with sugar. Small bubbles of air are incorporated and form a stable foam. When egg whites are Whisked the protein in them Albumin is stretched and traps air, for example when eggs are whisked to make merinques.

Fats performs different functions in food. They help to:

- add 'shortness' or 'flakiness' to foods, e.g. shortbread, pastry;
- provide a range of textures and cooking mediums;
 glaze foods, e.g. butter on
- carrots;

 aerate mixtures, e.g. a
- creamed cake mix;
- add a range of flavours.

Plasticity

Fats do not melt at fixed temperatures, but over a range. This property is called plasticity.

Colloidal systems

Colloidal systems give structure, texture and mouthfeel to many different products

System	Disperse phase	Continuous phase	Food
Sol	Solid	Liquid	Unset jelly
Gel	Liquid	Solid	Jelly
Emulsion	Liquid	Liquid	Mayonnaise
Solid emulsion	Liquid	Solid	Butter
Foam	Gas	Liquid	Whipped cream
Solid foam	Gas	Solid	Meringue

Emulsions- An emulsion is formed when oil and liquid are mixed together, such as in a salad dressing. Often when oil and salad are mixed together they will separate when left to stand- this happens with salad dressings. An emulsifier is sometimes added to these ingredients to prevent them from separating, for example, egg yolk which contains Lecithin is used in some dressings, mayonnaise and low-fat spreads.

Raising agents

Raising agents include anything that causes rising within foods, and are usually used in baked goods. Raising agents can be:

- biological, e.g. yeast;
- chemical, e.g. baking powder; Bicarbonate of Soda
- mechanical, e.g. adding air through beating or folding.

Functional ingredients

These are ingredients that are specifically included in food for additional health benefits. They include:

- probiotics 'good'
 bacteria that may have
 a positive impact on
 human health:
- prebiotics food ingredients that promote the growth of beneficial microorganisms in the gut;
- sterols/stanols compounds that can lower cholesterol;
- healthy fats (e.g. omega-3);
- added vitamins and minerals (more than in the original food).

Why is food prepared and cooked?

Food is prepared and cooked t

- make the food more palatable improves flavour, texture and appearance;
- reduce the bulk of the food;
- provide variety and interest to meals.
- . Have hot food on cold days.

Methods of cooking food

The methods of cooking are divided up into groups. These are based on the cooking medium used. They are:

- moist/liquid methods, e.g. boiling;
- dry methods, e.g. grilling;
- fat-based, e.g. frying.

Selecting the most appropriate way of preparing and cooking certain foods is important to maintain or enhance their nutritional value.

- Vitamins can be lost due to oxidation during preparation or leaching into the cooking liquid.
- Fat-based methods of cooking increase the energy (calories) of the food.
- The use of different cooking methods affects the sensory qualities of the food.

Conduction: The exchange of heat by direct contact with foods on a surface.

Key terms

Convection: Currents of hot air or hot liquid transfer the heat energy to the food.

Functional ingredients:

Included in food for additional health benefits. **Heat transfer:** Transference of heat energy between objects.

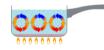
Radiation: Energy in the form of rays.

Tenderisation

- Mechanical tenderisation a meat cleaver or meat hammer may be used to beat the meat. Cutting into small cubes or mincing can also help.
- Chemical tenderisation (marinating) –the addition of any liquid to flavour or soften meat before cooking.

There are three ways that heat is transferred to food.

- Conduction the exchange of heat by direct contact with foods on a surface.
- Radiation energy in the form of rays.
- Convection currents of hot air or hot liquid transfer the heat energy to the food.



Enzymic Browning / Oxidisation- Reaction between a food product and oxygen resulting in a brown colour for example potatoes or apples going brown once peeled., it can be prevented by using acid (lemon juice) or blanching in boiling water or by cooking foods as soon as they have been prepared. Handle delicate foods with care so they do not bruise.

FRENCH

A l'horizon

travailler	to work
Je travaille	I work
Tu travailles	You work
II/Elle travaille	He/She works
Nous travaillons	We work
Vous travaillez	You all work
lls/Elles travaillent	They work

vouloir	to want (to)
Je veux	I want
Tu veux	You want
II/Elle veut	He/She wants
Nous voulons	We want
Vous voulez	You all want
lls/Elles veulent	They want

devoir	to have to	
Je dois	I have to	
Tu dois	You have to	
II/Elle doit	He/She has to	
Nous devons	We have to	
Vous devez	You all have to	
Ils/Elles doivent	They have to	

pouvoir	to be able to/can		
Je peux	I can		
Tu peux	You can		
II/Elle peut	He/She can		
Nous pouvons	We can		
Vous pouvez	You all can		
lls/Elles peuvent	They can		

Vouloir, devoir and pouvoir are modal verbs. Modal verbs are followed by an infinitive eg je veux être, on veut travailler

The simple future:

It is used to describe what will happen in the future "I will work". To form it, use future stem plus appropriate ending. e.g je travaillerai – I will work. For –er and –ir verbs, the future stem is the infinitive. For –re verbs, drop the –e from the infinitive. e.g. vendre -> Je vendrai – I will sell

Simple future Infinitive + Verb endings		For example		
Je	-ai	Je travailler ai		
Tu	-as	Tu travailler as		
II/Elle/On	-a	II/Elle/On travailler a		
Nous -ons		Nous travailler ons		
Vous	-ez	Vous travailler ez		
lls/Elles -ont		lls/Elles travailler ont		

for irregular verbs					
Irregular future stems + same endings					
avoir aur-					
être	ser-				
aller	ir-				
faire	fer-				
vouloir voudr-					
pouvoir pourr					
devoir	devr-				

avoir	to have	
J'ai	I have	
Tu as	You have	
II/Elle a	He/she has	
Nous avons	We have	
Vous avez	You all	
	have	
Ils/Elles ont	They have	

	être	to be	
7	Je suis	I am	
	Tu es	You are	
1	II/Elle est	He/She is	
	Nous sommes	We are	
	Vous êtes	You all are	
	Ils/Elles sont	They are	

To form the past tense (passé compose):

Use a form of avoir/être and the past participle
past participles of –er verbs end in é

of –ir verbs end in i

of –re verbs end in u

participles!

aller	to go	faire	to do
Je vais	l go	Je fais	I do
Tu vas	You go	Tu fais	You do
II/Elle va	He/She goes	II/Elle fait	He/She does
Nous allons	We go	Nous faisons	We do
Vous allez	You all go	Vous faites	You do
Ils/Elles vont	They go	Ils/Elles font	They do

Mots essentiels	Essential words
car	because
comme	as
lorsque	when
par contre	on the other hand
par exemple	for example
puisque	since/as
si	if
même si	even though
vu que	seeing that
étant donné que	given that
cependant	however
surtout	especially

A l'horizon

Les emplois - Jobs		
Qu'est ce que tu veux faire plus tard ?	What do you want to do later?	
Je veux être	I want to be	
avocat	lawyer	
boulanger	baker	
caissier	cashier	
chanteur/chanteuse	singer	
coiffeur	hairdresser	
comptable	accountant	
diplomate	diplomat	
directeur/direc-trice de magasin	store manager	
fermier	farmer	
infirmier/infirmière	nurse	
ingénieur	engineer	
ouvrier	factory worker	
médecin généraliste	doctor (GP)	
professeur	teacher	
vendeur	shop assistant	
vétérinaire	vet	

Verbes utiles -	· Useful verbs
acheter	to buy
aimer le contact avec les gens/les autres	to like the contact with people/others
discuter	to discuss
rencontrer	to meet
respecter	to respect
rigoler	to laugh
travailler	to work
vendre	to sell
voir	to see
voyager	to travel

Le travail – Work		
le métier	job/profession	
la profession	Profession	
un stage	training course/ work placement	
un poste	post	
un candidat	candidate	
créatif/créative	creative	
varié(e)	varied	
le boulot	job (informal)	
l'emploi	job (more formal)	

A l'avenir – in the future		
Je quitterai le collège	I will leave school	
Je ferai un apprentissage	I will do an apprenticeship	
Je ferai le tour du monde	I will go around the world	
Je travaillerai	I will work	
Je tomberai amoureux de quelqu'un	I will fall in love with someone	
J'habiterai	I will live	
J'aurai une Ferrari	I will have a Ferrari	
Je serai	I will be	
Je voyagerai	I will travel	

Questions importantes – Important questions		
Qu'est-ce que tu fais dans la vie?	What do you do for a living?	
Que feras-tu à l'avenir?	What will you do in the future?	
Quelles langues parles-tu ?	Which languages do your speak?	
Comment tu trouves les langues?	How do you find languages?	

l'importance des langues – the importance of languages		
C'est un avantage It's an advantage		
C'est essentiel	It's essential	
C'est un plus It a plus/bonus		

Les opinions -Opinions		
C'est mon rêve	It's my dream	
Ce sera utile	It will be useful	
Ce serait bien	It would be good	
Ce serait ennuyeux	It would be boring	
Pourquoi pas ?	Why not?	
Tu rigoles ?	Are you joking?	
Ça ne m'intéresse pas	It doesn't interest me.	
Ce n'est pas mon truc.	It's not my thing.	

			Q
Picture description		gan	
Sur la photo	On the photo		ise
Je peux voir	I can see		
On peut voir	We/you can see		niser – Year
II y a	There is/are		ır 9
De plus je peux voir	Also I can see		
À gauche	On the left		
À droite	On the right		
Au centre	In the centre		
À l'arrière plan	In the background		$\overline{\mathcal{D}}$
Au premier plan	In the foreground		RENC
II est en train de	He is in the middle of		SH
lls sont en train de	They are in the middle of		

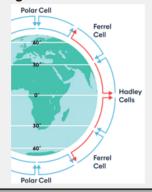
YEAR 9 GEOGRAPHY

Hazardous Earth

5

1. How does the worlds climate system function?

 The atmosphere is constantly moving transferring heat around the earth in a global circulation



2. Global Circulation

- The Inter-Tropical
 Convergence Zone
 (ITCZ) occurs near the
 Equator.
- The Sun's radiation is most intense at the Equator causing warm tropical air to rise rapidly creating an area of low pressure that brings heavy rainfall.
- As the rising air moves away from Equator it loses its moisture and density, descending to form arid regions.
- The ITCZ brings wet and dry Seasons.

3. What are the natural causes of climate change?

- Eruption theory eruptions produce ash that rise into the stratosphere, reflecting some sunlight back into space cooling the planet.
- Asteroid collision theory asteroids hit Earth sending tonnes of ash and dust into the atmosphere, blocking sunlight, and cooling the climate.
- Sunspot theory lots of sunspots means more solar energy warming the planet.
- Orbital change theory the Earth's orbit is sometimes different, it can tilt, wobble or become more oval.

4. Evidence for Past Climates?

Ice cores, tree rings and historical sources tell us past climates.

- Ice cores air bubbles contain CO₂ that tell us there have been previous warm and cold periods.
- Tree rings each ring in a tree shows a year's growth. In warmer and wetter years, a tree grows more.
- Historical sources historical drawings, diaries or newspapers are more recent evidence.

5. What is the Greenhouse effect?

The enhanced greenhouse effect is the way that human activities (industry, transport, energy, farming) produce greenhouse gases (carbon dioxide, methane) that trap heat from the sun and warm the planet. High-income and middle-income countries emit more carbon dioxide than low-income countries.

6. What are the impacts of Climate Change today?

- There has been a near 1°C rise in average temperature since the early 1900s.
- Sea levels have risen over 200mm (thermal expansion) in the same period. Thermal expansion is the increase in volume of sea water owing to heating.
- Arctic sea ice has halved in area since 1980.
- 90% of the world's valley glaciers are shrinking.

7. Climate futures...

Predicting future climate change is difficult because we don't know how populations and economies may grow, fossil fuel consumption versus renewable energy and people's lifestyle choices.

8. What are Tropical Cyclones?

A tropical cyclone:

- is a rotating system of clouds and storms
- forms over tropical waters (26.5°C)
- has winds which can exceed 118 km/h
- is known as a hurricane (Atlantic Ocean), typhoon (Pacific Ocean) and cyclone (Indian Ocean), and measured on different scales.
- Tropical cyclones form in source regions and need warm water, strong winds upwards and a strong Coriolis force

9. Cyclone hazards.

Tropical cyclones bring a range of hazards.

- Strong winds bring down trees and power lines.
- Storm surges bring flooding owing to the low pressure.
- Intense rainfall large amounts of rainfall in a short period of time.
- Landslides saturated hillsides can slump.

10. Bangladesh

Bangladesh is particularly vulnerable to cyclones. This is because much of its population is rural living on low-lying flood-prone farmland, it is a less developed country, and most its people are poor.

Bangladesh attempts to protect the population from tropical cyclones using a variety of methods, and although Bangladesh has reduced the number of deaths, warning systems are expensive and poverty meant that some people doesn't receive any warnings. In May 2009, Cyclone Aila killed 190 people and made 750,000 people homeless. Secondary impacts included crops being destroyed and farm animals killed. Sickness spread from contaminated water.

11.USA

In 2005, Hurricane Katrina was the worst hurricane to hit the USA.

- Its levees (embankments) collapsed which flooded 80% of New Orleans.
- Faulty maintenance and design of the levees were partly to blame.
- 1,833 people died and it costed the economy US\$108 billion.
- Most of New Orleans is below sea-level which is where many of the poor African-American suburbs are located.
- Many of the poor and elderly were left behind. 80% of the city was evacuated and some residents sheltered in the Super Dome stadium.

VOCAB German Year 9

Was isst du zum Frühstück? What do you eat for breakfast?		
Ich esse	I eat	
einen Joghurt	a yoghurt	
ein Brötchen mit Butter	a bread roll with butter	
und Marmelade	and jam	
kein Frühstück	no breakfast	
Toast mit	toast with	
(die) Butter	butter	
(der) Käse	cheese	
(der) Schinken	ham	
(der) Speck	bacon	
das Obst	fruit	
das Ei/ Eier (pl)	egg/eggs	
Ich trinke	I drink	
eine heiße Schokolade	hot chocolate	
einen Kaffee	coffee	
eine Tasse Tee	a cup of tea	
(der) Orangensaft	orange juice	
(die) Milch	milk	
Das ist (un)gesund	That is (un)healthy	
Das ist lecker/eklig	That is delicious/ disgusting	

Time Phrases		
letztes Wochenende	last weekend	
letzte Woche	last week	
gestern	yesterday	
nächste Woche	next week	
nächsten Samstag	next Saturday	
morgen	tomorrow	

Ein erstes Date – A first date		
Was wirst du machen?	What will you do?	
Ich werde	I will	
die Karten im Voraus kaufen	buy the tickets in advance	
einen guten Film auswählen	choose a good film	
früh ankommen	arrive early	
abholen	pick up	
etwas Schickes anziehen	wear something smart	
mit dem Bus in die Stadt fahren	go to town by bus	
ins Kino/essen gehen	go to the cinema/ out to eat	

	bleiben. healthy.	
Man muss	You must	
acht Stunden schlafen	sleep for eight hours	
wenig Fett und Zucker essen	eat little fat and sugar	
viel Obst und Gemüse essen	eat lots of fruit and vegetables	
mehr Wasser trinken	drink more water	
früh ins Bett gehen	go to bed early	
drei Stunden trainieren	exercise/train for 3 hours	
zweimal pro Woche joggen	go jogging twice a week	

Picture description		
Im Bild/Im Foto	On the photo	
Ich/Man kann sehen	I can see/You can see	
Im Bild gibt es	In the picture there is	
Auf der linken/ rechten Seite	On the left/on the right	
Im Hintergrund (V2)	In the background	
Im Vordergrund (V2)	In the foreground	
Sie spielen, essen , tragen	They are playing, eating, wearing	
USE PRESENT TENSE TO SAY WHAT PEOPLE ARE DOING – "NO IS-ING" "AM-ING" OR "ARE-ING"		

High frequency words		
wenn	when (if)	
immer	always	
zum Beispiel	for example	
zuerst	first of all	
seit	since (for)	
für	for	
möglich	possible	
alle	all	
teuer	expensive	

Connectives		
und	and	
aber	but	
auch	also	
denn	because	
oder	or	
weil (VTE)	because	

GERMAN

Half-term 3

müssen - to have to		
ich muss	I have to	
du musst	you have to	
er/sie/es muss	he/she/it has to	
wir müssen	we have to	
ihr müsst	you all have to	
Sie/sie müssen	you (form)/ they have to	
müssen is a modal verb and needs		

müssen is a modal verb and needs an infinitive at the end e.g. Ich mussgehen I have to go

nehmen – to take (strong)		
ich nehme	I take	
du nimmst	you take	
er/sie nimmt	he/she takes	
wir nehmen	we take	
ihr nehmt	you take	
Sie/sie nehmen	you(form)/they take	

haben - to have		
ich habe	I have	
du hast	you have	
er/sie/es hat	he/she/it has	
wir haben	we have	
ihr habt	you all have	
sie haben	they have	

sein - to be	
ich bin	l am
du bist	you are
er/sie/es ist	he/she/it is
wir sind	we are
ihr seid	you all are
sie sind	they are

essen – to eat (strong)		
ich esse	l eat	
du isst	you eat	
er/sie isst	he/she eats	
wir essen	we eat	
ihr esst	you eat	
sie essen	they eat	

Meinungen - opinions		
Meiner Meinung nach (V2)	In my opinion	
Es ist/war	It is/was	
Ich finde/fand	I find/found	
Ich denke/dachte	I think/thought	
Ich glaube/ glaubte	I believe/believed	
Es macht Spaß	It is fun	
Es hat Spaß gemacht	It was fun	

The future tense is formed by using the correct part of "werden" with an infinitive at the end.		
ich werdegehen	I will go	
du wirstgehen	you will go	
er/sie/es wirdgehen	he/she/it will go	
wir werdengehen	we will go	
ihr werdetgehen	you (pl) will go	
Sie/sie werdengehen	you (formal)/they will go	
NB The future tense translates to I will go or I am going to go		

The future tense translates to I will go of I am going to go

To talk about actions in the past use the perfect tense.
You need a form of haben or sein (for movement verbs)
plus a past participle (ge+verb stem+t)

Ich habe/er, sie hat/wir haben	I/he, she/we	
gespielt/gelernt/ gemacht/gekauft/getanzt some past participles are irregular getragen/ gesehen/gelesen	played/learnt/ did/bought/danced wore/saw/read	
Ich bin/er, sie ist/wir sind: some past participles are irregular gefahren/gegangen/ geschwommen/geblieben	l/he, she/we travelled/went/ swam/stayed	

The imperfect tense is sometimes used to talk about the past. It is usually used for formal situations.

Three key verbs are most of the time used in the imperfect to DESCRIBE things in the past

Es war Ich war	It was I was	
Es hatte	It had	
Ich hatte	I had	
Es gab	There was	

Es war spitze/klasse! – it was amazing Die Stadt hatte ein modernes Kino – the town had a modern cinema Es gab keine Schlange– there was no queue

Design terms:



Keyword	Definition	tick
The rule of thirds	This is a guideline that places the subject in the left or right third of an image, leaving the other two thirds more open. It divides a photo into nine equal parts, split by two equally spaced horizontal and vertical lines.	

Left Align

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.

Center Align

It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software.

Right Align

There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or words which don't look believable. If you are going to use a passage of Lorem Ipsum, be sure there isn't anything hidden in the text.

Keyword	Definition	Tick
Negative space	Negative space is a term used to describe the space surrounding a subject. It is typically empty and lacks details to simplify a design and provides breathing space which avoids over complicating visuals. Sometimes, it is used to show a hidden image too.	
Hierarchy	Hierarchy in graphic design utilizes several key principles, including size, colour, contrast, alignment, repetition, and brightness, to emphasize certain characteristics of the design. It controls those factors to show importance within the design.	
Bold	Bold colours or text stand out in a design. They are often bright or contrasting colours. Bold text has a thicker weight.	
Font weight	The font-weight specifies the weight, or thickness, of a font. A heavier weight is often used to aid with hierarchy in a design.	
Colour palette	A chosen set of colours to be used in a design. These colours are relevant to the subject theme and appear visually pleasing when used together.	
Alignment	Depending on the desired visual outcome, text can be either left ,center or right aligned in a design. This refers to which margins the paragraph is aligned to.	
Justified text	Justified text has a unified line length created by increasing the spacing between the words. While the structured shape of justified text can initially look neater (with hard edges on both sides as opposed to the soft edge of left-aligned text), it can lead to unpleasant rivers (or gaps), which can cause the design to be more disorganised.	

Bournemouth School: History Department: Knowledge Organiser: Spring Term 1: Nazi control of Germany 1933-9

1. Extending control and removing opposition from January 1933					2. Keeping Control by using propaganda			
Method	Description			✓	Method		Description	✓
Reichstag Fire (27 th February 1933)	van Der Lubbe and upassing of the 'Decre	ned on the Communists and Marinus e and used by Hitler and led to the 'Decree for the Protection of People spending peoples' basic civil rights			Ministry of Propaganda led by Joseph Goebbels		'Gleichschaltung': oversaw all censorship and propaganda to control all the thoughts, beliefs and opinions of Germans.	
Concentration Camps (Feb 1933)	had different catego	ories	azi's enemies: prisoners :: religious, political, ed labour groups, Jews.		Censorship		Anti-Nazi newspapers closed, radio broadcasting controlled, pre-publication censorship, Jazz music banned, book burnings	
Gestapo 1933	arrest and people s	end	pering. Had power to to camps without trial.		Propaganda		Spread Nazi message through: Posters, films, rallies (Nuremburg), architecture, theatre,	
Night of the Long Knives (30 th June 1934)	'Blood Purge' refers	as 'Operation Hummingbird' or the ge' refers to the brutal removal of tical and military rivals in the SA.					literature, 1936 Olympics (4x Gold medals for Jesse Owens, pause on anti-Semitism)	
3. Keeping control of	the Law				4. Keeping control of	of t	he churches	
Method	Description			✓	Method		Description	✓
Nazi Socialist League for the Maintenance of Law		altung (an identical way of es had to join this organisation					Concordat signed with Catholic Church 1933. Hitler agreed to allow Catholic schools, if the church stayed out of politics	
German Lawyer's Front 1933	All lawyers had to jo 100,000 members l		-		Protestant Church		All Protestant churches merged in 1933 under Bishop Muller, Nazification of the churches – swastikas in church etc.	
People's Court 1934	Judges were all Nazis. Cases of treason tried and defendants summarily executed. Hitler sometimes personally intervened on judgements.				Faith Movement		Rival church set up in 1933 to worship traditional volk images – worship of the soil, crops etc	
5. What opposition d from churches?		✓	6. What opposition of youth?	lid H	Hitler face from the	✓	7. What opposition did Hitler face from ordinary Germans?	✓
 Catholic Church: despite 'Concordat' there was tension: Pope Pius XI issued an encyclical called 'With Burning Anxiety' read out in churches by Priests. Protestant Church – Opponents set up the "Confessional Church" led by Father Niemoller. Emergency Pastor's League set up and had 7,000 members by 1934. 			1. Edelweiss Pirates: attac Swing and Jazz. Began from members by 1939. Mainly and had differing names. 2. Swing Youth: generally listened to Swing music (h grew their hair, girls wore in Rebelling against the orde	om 1 work from ated make	934 and had 2000 king class youth groups the middle-classes: by the Nazis) boys e-up and nail-varnish!		 Genuine support as result of Germany's economic recovery 1933. Most happy to see Germany restored, Versailles reversed, army rebuilt. Many happy that Communists imprisoned. 300,000 left Germany to live in more liberal countries; 1.3 million sent to concentration camps between 1933 – 1939. 	

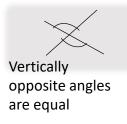


History Department: Knowledge Organiser: Year 9 Spring Term 2: Life in Nazi Germany 1933-9

1. Attitude & Policies	<u> </u>				<u> </u>		e Youth of Germany	
Method	Description			✓	Method		Description	✓
Social Pressure	Women encourage make up, not work,		dress plainly, avoid emain at home		School changes		Napola schools set up ages 10-18, Adolf Hitler Schools 12-18, Ordensburgen from age 20	
Attempts to raise birth rate	Propaganda, marriage loans, medals for mothers of large families, Lebensborn programme, divorce made easier, family allowances increased				Curriculum Change	S	Textbooks rewritten, Mein Kampf used as a school text, teachers joined Nazi Teachers League and NSDAP, Racial Studies, 15% of curriculum for PE, girls taught domestic skills	
Work	from 1936, but this economy needing r	polio nore	workers pre-WW2		Youth Groups		Hitler Youth (boys) and League of German Maidens (girls) for ages 14-18. Military drill, camping, singing, marching for boys. Domestic	
Repression	Concentration Cam 1933 and Ravensb		Morigen opened in opened in 1939				skills for girls. Other groups for younger and older boys and girls.	
3. Economic Policies	- Reducing unem	plo	yment		4. Improvements to	o th	e lives of workers	
Method	Description			✓	Method		Description	✓
Reich Labour Service	From 1935, compu 25, low pay	ulsory labour for all men 18-			KdF (set up by the DAF)		Subsidised leisure and cultural activities for workers: holidays, museums, cinema trips	
Job Creation	By 1938 37.1bn Marks spent on public works – Autobahns, engineering projects, public buildings. 7,000kms of autobahns built				Beauty of Labour (Dept Imp		Improvements made to working conditions: ventilation, canteens, improved sports facilities.	
Rearmament		ernr	d 1935 – 1.4m in the nent contracts given to nies.		Wages		Average weekly wage rose from 86 Marks p/w in 1932 to 109 Marks p/w by 1938	
Invisible unemployment		lism	25s pushed into labour issed, opponents were ers didn't count.		Unemployment Reduced		Conscription and Public Works schemes provided thousands of new jobs from 1933.	
5. Workers lives get v	vorse	✓	6. Persecution of mi	nori	ties	✓	7. Persecution of the Jews	✓
* Trade Unions closed in 1933 – no one to represent the workers. * Volkswagen Swindle 1938 – Workers encouraged to save for a VW car from the government but none were delivered * Cost of living increased – Inflation reduced real wages. All basic groceries cost more in 1939 than in 1933. Food items in short supply to keep prices high for farmers * Working Hours increased: 42.9 hours			Nazis believed Aryans v Volksgemeinschaft (ped pure race: a 'Herrenvoll 1933 – Sterilisation Law sterilised 1935 – Marriage betwee forbidden 1938 – Gypsies, Vagrar concentration camps	oples k'ack u – 3 en gy nts, k	s community) and a nieved by elimination: 50,000 compulsorily psies and Germans Homosexuals taken to		1933 – Boycott of Jewish Shops 1935 – Nuremberg Laws – Citizenship removed for Jews, marriage between Jews and non-Jews made illegal4 1936 – Jews forbidden from professional jobs 1938 – Jewish children expelled from schools 1938 – Kristallnacht – Pogrom against the Jews – 100 killed, 20,000 temporarily sent to camps, 20,000 businesses destroyed. Jews left	
* Working Hours increa p/w by 1933 to 47 hours			1939 – Euthanasia Can murdered for having dis				fined for the damage, 250,000 Jews left Germany.	

Keyword	Definition	Example
Fraction	Represents a non-integer value, made up of a numerator and denominator	$\frac{6}{10}$ which simplifies to $\frac{3}{5}$
Reciprocal	1 divided by the number. The reciprocal of " n " is $\frac{1}{n}$ or n^{-1}	Reciprocal of $5 = \frac{1}{5}$ Reciprocal of $\frac{2}{3} = \frac{3}{2}$
Ratio	Used to compare values, showing how much there is of one quantity relative to another	A: B = 1: 2 means there is twice as much of B than A
Unit ratio	One of the values is reduced to 1 in a ratio. The other can be a decimal.	4: 7 becomes 1: 1.75
Ratio equations	Taking equivalent ratios and forming equivalent fractions that can be solved	If $x: 2x - 3 = 3: 4$ then $\frac{x}{2x-3} = \frac{3}{4}$
Proportion	A statement on how two quantities are linked. This can be direct or indirect.	2x-3 4
Direct proportion	As one value increases, the other increases by the same multiple	<i>y</i> ∝ <i>x</i>
Indirect proportion	As one value increases, the other decreases by the same multiple	$y \propto \frac{1}{x}$
Percentage	Parts out of 100	40% means $\frac{40}{100}$ or $\frac{2}{5}$
Multiplier	Used to find a percentage of a value, or to increase or decrease by a percentage	To increase by 35%, multiply by 1.35%
Percentage change	The percentage increase from an original value to the new value	$\% change = \frac{difference}{original}$
Appreciate	To increase in value	Money invested in a bank appreciates in value
Depreciate	To decrease in value	The value of common items depreciates in value
Simple interest	Interest calculated from the original amount and is the same each year	£100 invested at 5% for 2 years $100 + 2 \times (0.05 \times 100) = 110$
Compound interest	Interest is added on at the end of each term, and included in the interest calculation for the next term	£100 invested at 5% for 2 years $100 \times (1.05)^2 = 110.25$
VAT	Value Added Tax, 20% is the UK, charged on most goods and services	
Recurring decimals	A rational number. A decimal with a recurring pattern, which can be represented by a fraction.	$0.2 = \frac{1}{5}$ $0.\dot{6} = \frac{2}{3}$

Keyword	Definition	Example(s)
Vertex	The point where two lines meet	
Interior angle	When one side of a polygon is extended at a vertex	\wedge
Exterior angle	 the angle inside the polygon is called the interior angle the angle outside the polygon between the side and the extended side is called the exterior angle. 	
Tesselate	Shapes fit together exactly like tiles with no gaps between them. The angles where the shapes meet must sum to 180°	
Sum of interior angles	$S_n = (n-2) \times 180^{\circ}$	
Sum of exterior angles	The sum of the exterior angles of a polygon is always 360°	
Regular polygon	A polygon where all sides are the same length, and all interior angles are the same.	
Hypotenuse	In a right-angled triangle, this is the longest side and is opposite the right angle.	
Pythagoras' theorem	The square of the hypotenuse is equal to the sum of the squares of the other two sides	a c
Opposite side	In a right-angled triangle, the side $\underline{\rm opposite}$ the angle labelled θ is called the $\underline{\rm opposite}$	djacent
Adjacent side	In a right-angled triangle, the side $\underline{\text{next to}}$ the angle labelled θ is called the $\underline{\text{adjacent}}.$	opposite
Sine ratio	The sine of angle $\boldsymbol{\theta}$ is the ratio of the opposite side to the hypotenuse	$\sin\theta = \frac{opp}{hyp}$
Cosine ratio	The cosine of angle $\boldsymbol{\theta}$ is the ratio of the adjacent side to the hypotenuse	$\cos\theta = \frac{adj}{hyp}$
Tangent ratio	The tangent of angle $\boldsymbol{\theta}$ is the ratio of the opposite side to the adjacent side	$\tan\theta = \frac{opp}{adj}$
Angle of depression	The angle of depression (d) is the angle measured downwards from the horizontal	d)
Angle of elevation	The angle of elevation (e) is the angle measured upwards from the horizontal.	1 0

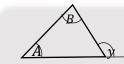




Alternate angles are equal

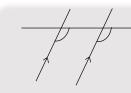


Co-interior angles sum to 180°



The exterior angle of a triangle is equal to the sum of the interior angles at the other two vertices.

$$\angle A + \angle B = \angle y$$



Corresponding angles are equal

	0 °	30°	45°	60°	90°
sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0
tan	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	



Year 9

Unit Beethoven: 1st movement from Piano sonata no. 8 in C minor ('Pathétique')

Context

Classical era the musical period from ~1750-1820.

Patronage a system where composers earned money from a wealthy individual for writing music.

Romantic era the period of musical history from ~1810-1900

Romanticism the artistic and intellectual movement behind the Romantic era. Romanticism is characterised by an emphasis on an individual's expression of emotion and their freedom of imagination, as well as a love of the natural world. Another common theme was individual rebellion against established social rules and conventions, which led to the rise of the virtuoso heroic soloist in Romantic concertos.

Dynamics

Crescendo gradually getting louder.

Diminuendo gradually getting quieter.

Fortissimo very loud

Sforzando (sf or **sfz)** an accent showing that a note or chord should be played with greater force than those surrounding it.

Rhythm

Rit./ritardando slowing down.

Tempo rubato (usually just **rubato**) Literally 'robbed time'. The tempo is sped up and slowed down for expressive effect.

Texture

Alberti bass a figuration common in the Classical period, using broken chords as an accompaniment.

Homophonic a texture comprising a melody with accompaniment.



Bridge passage another term for transition

Coda a section sometimes added at the end of a piece or movement.

Codetta a short coda at the end of a section within a piece or movement.

First subject the first theme or melody in Sonata form.

Second subject the second theme or melody in sonata form.

Sonata form a large-scale form developed in the Classical era comprising exposition, development and recapitulation.

Transition a linking passage often used to modulate (change the key of the music) in preparation for the second subject in Sonata form.



This QR code will take you to a Spotify playlist with audio examples of many of the concepts covered on this sheet and in lessons. You will find it helpful to listen to these as you learn.

Year **9**

Unit Beethoven: 1st movement from Piano sonata no. 8 in C minor ('Pathétique')

Melody

Appoggiatura an ornament sometimes referred to as a 'leaning in' note. The appoggiatura leans on the main note, usually taking half its value and starting a step higher.

Articulation the manner in which a note or sequence of notes is played—for example staccato, legato, accented etc.

Chromatic from the Greek word for colour. In harmony, notes and chords that are not diatonic (part of the key of the music). In melody, ascending or descending in semitones.

Conjunct movement by step.

Diatonic notes that belong to the key of the piece.

Legato played smoothly

Lyrical songlike, flowing

Mordent an ornament that goes quickly from the main note to the note above (upper mordent) or below (lower or inverted mordent) and back again.

Octave An interval covering eight diatonic notes.

Ornament notes that decorate a melody, shown by small (grace) notes before a note or symbols above it.

Sequence repetition of a musical phrase at a higher or lower pitch than the original.

Staccato played in a detached manner

Instrumentation

Range The distance from the lowest to the highest notes an instrument can play.

Register how high or low a piece, or passage, sounds.

Tonality

Passing modulation modulations where the new key on lasts a few bars (or less) before modulating to another key.

Harmony

Cadential relating to a progression of chords forming a cadence.

Consonant intervals or chords that sound pleasant; triads and intervals of a third and sixth are examples.

Diminished seventh a four-note chord (tetrad) made up entirely of minor thirds.

Dissonant intervals or chords that clash—seconds, sevenths and the tritone (augmented fourth or diminished fifth).

Dominant preparation a passage focused on the dominant chord to create expectation of a return to the tonic.

Dominant seventh chord V with added minor seventh.

Harmonic rhythm the rate at which the chords change.

Imperfect cadence a cadence ending on chord V. Sounds incomplete.

Interrupted cadence a cadence with chord V followed by chord vi—interrupts an expected perfect cadence.

Inversion chords with a note other than the root in the bass.

Pedal a sustained or repeated note in the bass, while the harmony changes.

Perfect cadence Chord V followed by chord I at the end of a phrase.



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Year 9- Personal Development - January 2025



An official or legal process to end a

is the same as a divorce.

civil partnership. In many respects it

Useful websites:

Dissolution

https://www.depaul.org.uk/nightstop/

https://www.childline.org.uk/ 0800 1111



Useful Careers Websites

The **Unifrog** platform is designed to support learners in making the most informed decisions about their futures and has a range of tools that are suitable for all year groups. Each student has their own personal account that provides a wide range of information related to their interests and aspirations. www.unifrog.org

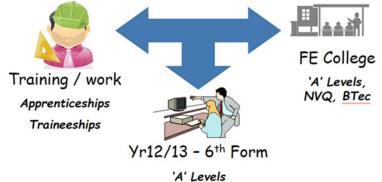
Information on apprenticeships, including a range of different schemes:

https://amazingapprenticeships.com/ www.gov.uk/apply-apprenticeship

General careers information:

https://careerpilot.org.uk/ www.nationalcareers.service.gov.uk www.prospects.ac.uk/job-profiles

KS4 - choices for Post 16

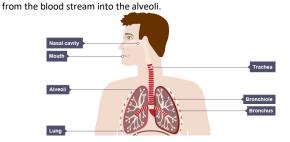




3.1.1.2 The structure and functions of the Cardio-Respiratory System (KO 1 of 2)

The Pathway of Air into the Body

When we breathe in, air moves through the <u>mouth and nose</u>. It then travels down the <u>trachea</u>. Near the lungs the trachea divides into two tubes called <u>bronchi</u> (one enters left lung and the other the right). Once in the lungs the bronchi split into smaller bronchi before dividing into even smaller tubes called <u>bronchioles</u>. At the end of each bronchiole are openings to the <u>alveoli</u>. At the alveoli gaseous exchange occurs. Capillaries carrying blood surround each alveoli resulting in oxygen being passed into the bloodstream from the alveoli in exchange for carbon dioxide which passes



Pathway of Blood

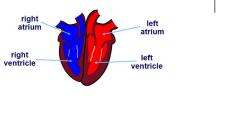
This is the order for the pathway of blood moving around the body.

- 1. Deoxygenated blood into the right atrium.
- 2. Then into the right ventricle.
- 3. Pulmonary artery transports deoxygenated blood to the lungs.
- 4. Gas exchange occurs (blood is oxygenated).
- Pulmonary vein transports oxygenated blood back to the left atrium.
- 6. Then into the left ventricle.
- Oxygenated blood is then ejected and transported to the body via the aorta.

The diastolic phase of the cardiac cycle is the filling stage during relaxation. The systolic phase of the cardiac cycle is the ejection stage during contraction.

Valves within the heart open due to pressure and close to prevent backflow.

Structure of the Heart right left



Gaseous Exchange

Oxygen passes through the alveoli, into the capillaries.

In the capillaries, oxygen combines with haemoglobin to form oxyhaemoglobin and is carried around the body.

At the same time, haemoglobin carries carbon dioxide from the body to the capillaries.

The carbon dioxide in the capillaries passes through the alveoli and is exhaled.

Oxygen combines with haemoglobin in the red blood cells to form oxyhaemoglobin.

Haemoglobin can also carry carbon dioxide back to the heart from the working muscles.

Features that assist	Role
	Role
gaseous exchange	
Large surface area of	Allows a larger volume
alveoli.	of gases to move
	between the lungs
	and the bloodstream.
Moist thin walls (one	Allows gases to pass
cell thick) – semi	through the walls of
permeable	the alveoli.
membrane.	
Short diffusion	Allows gases to move
pathway.	quickly from the
	alveoli to the
	bloodstream.
Large capillary	Creates a large area
network.	for gaseous exchange
	to take place.
Large blood supply.	Carries oxygen and
	carbon dioxide to and
	from the alveoli.
Movement of gas	This pressure gradient
from high	allows diffusion to
concentration to low	occur as gases always
concentration.	move from an area of
	high concentration to
	an area of low
	concentration.

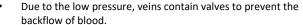
Arteries:

Blood Vessels

- Carry blood away from the heart.
- Most arteries carry oxygenated blood (oxygen rich).
- Thick walls to withstand the high blood pressure.
- Small / narrow lumen so that the blood is forced around the body at a high pressure.
- Strong elastic walls that can easily increase and decrease in diameter (vasodilate).
- The Pulmonary Artery carries deoxygenated blood from the right side of the heart to the lungs.
- The Aorta carries oxygenated blood from the left side of the heard to the rest of the body.

Veins:

- Veins carry blood towards the heart.
- Most veins carry deoxygenated blood (carbon dioxide rich).
- Thinner walls than arteries as the blood is pumped through at a low pressure.





- The Vena Cava carries deoxygenated blood from the body to the right side of the heart.
- The Pulmonary Vein carries oxygenated blood to the left side of the heart from the lungs.

Capillaries:

- In Capillaries gaseous exchange takes place.
- Capillaries are one cell thick to enable substances to enter and leave the blood stream (allows rapid diffusion).
- Capillaries surround our alveoli and body tissues (e.g. muscles) to allow gaseous exchange to take place (the exchange of oxygen and carbon-dioxide).
- Huge network throughout the body linking arteries and veins (large surface area for gaseous exchange to take place).

Vasoconstriction / Vasodilation

- Vasoconstriction and vasodilation work together to cause 'blood shunting' (the redistribution of blood around the body).
- Vasoconstriction is reducing the diameter of small arteries, so by reducing the blood flow to certain parts of the body.
- Vasodilation is increasing the diameter of small arteries to increase blood flow to certain parts of the body.
- This occurs during exercise. Vasoconstriction reduces blood flow to parts of the body not needed during exercise e.g. bladder / stomach, and that blood is redistributed to the muscles that are being used in the activity.
- Vasodilation occurs around the muscles so that more blood, carrying oxygen, can get to the muscles to create more energy. This will allow a performer to perform for longer and maintain their standard of play.

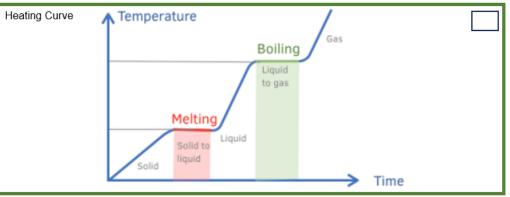


Topic 3 - Particle Model of Matter

_		
Keyword	Learn	✓
Density	The mass per unit volume.	
Internal energy	The total kinetic and potential energies of all the particles that make up the system.	
Melting	When a solid turns to a liquid. The internal energy increases.	
Freezing	When a liquid turns to a solid. The internal energy decreases.	
Boiling / evaporation	When a liquid turns to a gas. The internal energy increases. (Boiling occurs at one temperature the boiling point. Evaporation occurs at any temperature.)	
Condensation	When a gas turns to a liquid. The internal energy decreases.	
Sublimation	When a solid turns to a gas. The internal energy increases.	
Physical change	A change that does not produce a new substance and it can be reversed.	
Specific heat capacity	The amount of energy required to raise the temperature of 1 kg of a substance by 1°C.	
Specific latent heat of fusion	The amount of energy required to change the state of 1 kg of a substance from solid to liquid. With no temperature change	
Specific latent heat of vaporisation	The amount of energy required to change the state of 1 kg of a substance from liquid to gas. With no temperature change	

State	Diagram	Learn the key points for each state of mater.
Solid	0000000 0000000 0000000 0000000 0000000	 Regular arrangement, touching neighbouring particles Vibrate about a fixed position Strong intermolecular forces Fixed shape Cannot be compressed
Liquid	\$655555 \$655555	 Irregular arrangement, touching neighbouring particles Particles move past one another Weaker intermolecular forces than in a solid Take the shape of the container (can flow) Cannot be compressed
Gas		 Particles are not touching Particles move randomly No / very small intermolecular forces Particles move to fill the container Can be compressed

Quantity	Unit	Symbol	
mass	kilograms	kg	
volume	metres cubed	m³	
density	kilograms per metre cubed	kg/m³	
specific heat capacity	joules per kilogram per degree Celsius	J/kg °C	
specific latent heat	joules per kilogram J /		
pressure	pascal OR newtons per metre squared	Pa OR N/m²	



Gases - Learn these properties.

The higher the temperature the higher the average kinetic energy of the particles .

The pressure in a gas produces a force at right angles to the wall of the gas container.

Heating a gas in a fixed volume increases the pressure.

Using a force to decrease the volume of a gas is doing 'work' to transfer energy to the gas. The gas will get hotter as its internal energy is increasing.

Equations

Density =
$$\frac{\text{mass}}{\text{volume}}$$

$$\rho = \frac{m}{v}$$

 $E = m \times x \times \Delta T$

Thermal energy transferred = mass x specific heat capacity x temperature change

Thermal energy transferred = mass x specific latent heat

 $E = m \times L$

Pressure x volume = constant

 $p \times V = constant$

Work = force x distance moved in the direction of the force

 $W = F \times s$

6

Synagogue: Jewish place of worship.

Minyan: a group of 10 adults required for a Jewish religious service.

Menorah: a candle stick holding 7 or 9 candles

Star of David: symbol of Judaism, the shape of King David's shield.

Aron Hakodesh/Ark: The holiest part of the synagogue which contains the Torah scrolls.

Ner Tamid: eternal light/ a light that is kept

burning above the ark

Bimah: A raised platform from where the Torah is read.

language of the country they are in Men and women sit separately to worship Men and women sit together to worship The person leading the service will face the congregation. Orthodox rabbis are male Women can be Rabbis. Covering your head for worship is a sign of Most men will wear head coverings, some respect to G-d. Men are likely to cover their women may also chose to wear a kippah or a head using a skull cap called a kippah. Women will cover their heads if they are

The person leading the service will face the

The service will be held in Hebrew.

married, often with a hat or scarf.

Amidah: central prayer	of Jewish worship- the "standing prayer".
The daily prayer boo	The skull cap used to cover a man's head, as a sign of respect.
The tallit is a prayer shawl with tzitzit on each corner. The tzitzit represent the commandments of 0-d and whenever a Jew wears the tallit it reminds them that they are obeying 0-d's word.	Sciciar *And this shell serve you as a sign on your hand and as a reminder on your forehead and are a reminder on your forehead on a reminder on your forehead and arm in line with the deart. Prayers should be completely focused on G-d and should come from the heart.

Shabbat: the Jewish holy day of the week; starting shortly before sunset on a Friday until night time of Saturday.

Shabbat at the synagogue
-The congregation stands when the
Ark is opened: a reminder of how the
laws stood at the battem of Hount

Jews stood at the bottom of Mou Sinai when Moses returned with the 10 Commandments. -Torah passes through the

synagogue, many Jews touch it with their Siddur or the tzizit on their tallit and then touch their lips. In Ezekiel Jews are told G-d's words should be on their lips and sweet like honey.

Shabbat at home

-Everything is prepared before Shabbat begins. Many types of work are not allowed on Shabbat, so it needs to be done prior to sunset. -Two candles are placed on the table. They represent the commandments to "remembe and "observe" Shabbat

-Two loaves of challah bread. These represent the food provided for Jews whilst they wandered in the wilderness.

-Wine or grape juice. Drinking Shabbat wine symbolises joy and celebration

Worshipping at home

Orthodox

Mezuzah: A mezuzah is a little box which contains scripture and is nailed to the doorframe of a Jewish house. A Jew will touch the mezuzah as a reminder to follow G-d's commandments.

Reform

congregation/

Worship is more likely to take place on

person leading the service will face the

Shabbat and festivals, not every day and The

Reform synagogues will use Hebrew and the

Prayer: Jews are required to pray 3 times a day, for many Jews it would not be possible to go to the synagogue every time. Many women only attend synagogue on Shabbat, so it is important they are able to also worship at home. And G-s omnipresent- everywhere!

Study of scripture: Tenakh- The Written Law- Jewish sacred scriptures. A collection of 24 books. INCLUDES THE TORAH. Talmud- The Oral law- a commentary on the Torah by early Rabbis on how to interrupt laws for everyday life.

How is a baby welcomed into Judaism?

Brit Milah: ceremony of male circumcision; removal of the foreskin for religious reasons. The formal naming of the baby boy will take place here.

Mohel: a trained circumciser.

Sandek: "Companion of the child".

Brit Bat: daughter's covenant. They might light candles or was the baby's feet, name the baby. They might also name the baby at a Shabbat Torah service at the synagogue.

Redemption of the first born son: Some Orthodox Jews give a small amount of money 31 days he is born to redeem him.

How do Jews celebrate coming of Age?

- Bar Mitzvah: Ritual for boys at age 13. Son of the Commandment.
- Bat Mitzvah: Ritual for girls at age 12. Daughter of the Commandment.

Bar Mitzvah

-It will take place of the first Shabbat after his 13th,he will read the Torah in the normal synagogue service. -His Father gives thanks to G-d for bringing his son to maturity and declares he is responsible for his own actions

- -He will have lessons at the synagogue to prepare, especially in helping him understand Hebrew.
- -He will wear a tallit for the first time.
- Sweets are thrown to represent blessings.
- -There is a celebratory meal in honour of the Bar Mitzvah boy.

Bat Mitzvah

-In Reform Judaism a Bat Mitzvah is very similar to Bar Mitzvah. A girl will read from the Torah or may recite the Eishet Chavil in Hebrew. The will also attend synagogue in order to prepare. In Orthodox Judaism women don't take a lead role in synagogue services, so instead they may have a family meal with small religious gifts.

How to Jews celebrate a marriage and why?



- Betrothal/ Kiddushin: the period of time before the wedding/ engagement.
- **Ketubah:** Jewish marriage contract. It is a contract of the husband's duties to the wife.
- Chuppah: Jewish wedding canopy. Symbolises the home the couple will make together.
- The bride circles the groom 7 times: Symbolises the bride and groom make space for each other every day.
- The groom breaks a glass under his heel: Shows regret for the destruction of the temple.
- Mazel Tov: Hebrew phrase meaning "Good Luck"/ "Congratulations".
- Wedding reception lots of music and dancing: Twedding dance is called

How to Jews mourn the dead?

When a death is announced Jews will make a small tear in their clothes to follow the example of Jacob and as a sign of the grief and sorrow

"Jacob tore his clothes...and observed mourning for his son" Genesis 37:34)

Burial takes place as ASAP. A simple coffin is used to show equality in death.

Shiva is an intense period of mourning that lasts for 7 days, after the burial.

The same prayer is recited throughout the 12 month mourning period- The Kaddish. It praises G-d and asks for peace.

Mourners leave pebbles at the grave to represent the permanence of memory.

The dietary laws of Judaism.

Dietary laws/ Kashrut: rules that deal with foods permitted to be eaten, food preparation & food combinations. Most strictly followed by Orthodox Jews.

Kosher: permitted food, food that meets the requirements of Jewish law.

This will include certain meat, which has been slaughtered in a specific way. Eg. Beef and chicken.

Trefah: foods which are forbidden, means "torn".

Certain meats are forbidden eg. Pork, shrimp and shellfish

Meat and milk CANNOT be mixed. Some Jews will have two lots of utensils etc.

"You shall not boil a kid in its mother's milk"

How do Jews celebrate Rosh Hashanah and Yom Kippur? Rosh Hashanah: the Jewish New Year Yom Kippur: the Day of Atonement.

Special prayers of forgiveness are said in the month leading up to Rosh Hashanah, as well as acts of charity. To atone/ make up for any wrong doing in order to be judged well by G-d.

The shofar is blown daily in the synagogue in the month before Rosh

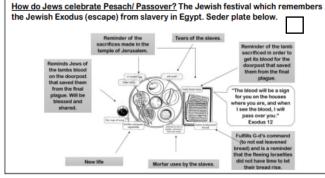
Hashanah. Wakes Jews up (spiritually) Sweet food such as apples and honey

Hashanah and 100 times on Rosh

and calls them to repent.

are eaten. Desire for a sweet new year.

10 Day after Rosh Hashanah. No work is to be done. It is the Sabbath of Sabbaths. Jews fast for 25 hours. On this days Jews are expected to practice "self denial". Jews wear white. A sign of purity.



The future tense

The future tense is formed by taking the infitive and adding the endings seen below.

The endings are the same for AR, ER and IR verbs

Infinitve + ending = future tense trabajar + é = trabajaré (I will work)

Trabajar	To work	
trabajar <u>é</u>	I will work	
trabajar <u>ás</u>	you will work	
trabajar <u>á</u>	he/she will work	
trabajar <u>emos</u>	we will work	
trabajar <u>éis</u>	you all will work	
trabajar <u>án</u>	they will work	

There are some irregular stems which are not the infinitive. Here are some examples:		
haré	I will do	
tendré	I will have	
podré	I will be able to	

Grammar notes

Year 9 SPANISH - Half-Term 3 -

Future tense opinions		
Será	It will be	
difícil	difficult	
interesante	interesting	
monótono monotonous		
duro	hard	
estresante stressful		
repetitivo repetitive		
estimulante	stimulating	

Describing a photo		
En la foto	In the photo	
Нау	There is/are	
Puedo ver I can see		
Puedes ver You can see		
A la izquierda	On the left	
A la derecha	On the right	
En el centro	In the centre	
En el fondo In the background		
En primer plano	In the foreground	
Al lado de	Next to	

Durante las vacaciones de Navidad		
fui	I went	
fue	He / she went	
fue	It was	
recibí	I received	
comí	I ate	
jugué	I played	
bebí	I drank	
vi	I watched	
salí	I went out	

Essential words		
porque	because	T
dado que	given that	
sin embargo	however	
pero	but	
también	also	
además	furthermore	
si	if	
cuando	when	
por ejemplo	for example	T
sobre todo	especially	T

Mis ambiciones

Voy a	I am going to
ganar mucho dinero	earn lots of money
hacer un trabajo interesante	do an interesting job
ir a la universidad	go to university
ser famoso/a	be famous
ser voluntario/a	be a volunteer
tener hijos	have children
viajar mucho	travel a lot
vivir en el extranjero	live abroad

¿Cómo será tu futuro?

En el futuro	In the future	
ganaré mucho dinero	I will earn lots of money	
haré un trabajo interesante	I will do an interesting job	
iré a la universidad	I will go to university	
seré famoso/a	I will be famous	
seré voluntario/a	I will be a volunteer	
tendré hijos	I will have children	
viajaré mucho	I will travel a lot	
viviré en el extranjero	I will live abroad	

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Soy	I am	
camarero/a	a waiter	
cocinero/a	a cook	
dependiente/a	a shop keeper	
esteticista	a beautician	
jardinero/a	a gardener	
limpiador(a)	a cleaner	
peluquero/a	a hairdresser	
recepcionista	a receptionist	
Note: in Spanish we don't use the article un/una		

Los trabajos en el hotel

¿En qué consiste tu trabajo?

with jobs (e.g. soy camarero)

Year 9 SPANISH - Half-Term 3 - El trabajo

¿Tienes que?	Do you have to	
Tengo que	I have to	
contester al teléfono	answer the phone	
cortar el pelo a los clientes	cut the customers' hair	
cuidar las plantas	to look after the plants	
limpiar habitaciones	clean rooms	
preparer comida	prepare food	
servir la comida en el restaurante	serve food in the restaurant	
vender productos en la tienda	sell products in the shop	
hacer manicuras	to do manicures	

¿En qué trabajan tus padres?

My father / mother is	
a lawyer	
a doctor	
a househusband/wife	
o/a a vet	
a teacher	
a banker	
a nurse	
	a lawyer a doctor a househusband/wife a vet a teacher a banker

Describe tu trabajo

hablo con clientes	I speak with	
	customers	
leo mi agenda	I read my diary	
preparo mis cosas	I prepare my things	
trabajo con mi equipo	I work with my team	
voy a la oficina	I go to the office	
viajo al extranjero	I travel abroad	
trabajo con animals	I work with animals	
trabajo solo	I work alone	

Me gustaría...

trabajar en una oficina	work in an office	
trabajar al aire libre	work outdoors	
hacer un trabajo creativo	do a creative job	
hacer un trabajo manual	do a manual job	
trabajar con animales	work with animals	

Opiniones

A mi padre, le gusta su trabajo	My father likes his job	
A mi madre, le gusta su trabajo	My mother likes her job	
porque es	because it is	
estresante	stressful	
repetitivo	repetitive	
estimulante	stimulating	
creativo	creative	

¿Qué tipo de persona eres?

En mi opinión, soy	In my opinion, I am
creo / pienso que	I believe / think that
soy muy / bastante	I am very / quite
ambicioso/a	ambitious
creativo/a	creative
práctico/a	practical
responsable	responsible
independiente	independent
organizado/a	organised
inteligente	intelligent
sociable	sociable
paciente	patient

Connectives así que so because of this por eso

Talking about what you want to do		
me gustaría ser I would like to be		
quiero ser I want to be		

GCSE Design Technology: CORE 1.09 Papers and boards

GCSE Design Technology: CORE 1.10 Polymers

Papers

Tick	Туре	Uses	Advantages
	Copier paper 80gsm	WritingPrintingDrawing	Takes colour wellCheapAvailable in different colours
	Cartridge paper 150gsm	DrawingPrintingArt sketch books	Accepts most types of drawing mediaOpaque
	Tracing paper 60-90gsm	Art Envelope windows	Strong Translucent

Tick	Thermoforming polymer	Properties	Uses
	Acrylic	BrittleEasily cleanedFood safeScratches easily	Shop signsCar headlightsBathsFish tanks
	HIPS (High Impact Polystyrene)	LightweightHigh stiffnessToughScratches easily	ToysTV partsRefrigerator linings
	Biopol	Degrades in soilLightweightGood electrical insulator	 Disposable cups, razors and cutlery Packaging Surgical stitches

Boards

Tick	Туре	Uses	Advantages
	Folding boxboard	Cereal boxesCartonsFood packaging	Excellent for scoringAccepts print wellInexpensive
	Corrugated board	Protective packaging	Impact resistantStrongLightweightInexpensive
	Solid white board	 Book covers Cosmetic + medicinal packaging 	StrongRigidAccepts print very well

Tick	Thermosetting polymer	Properties	Uses
	Polyester resin	RigidBrittleGood electrical and heat insulator	Boat hullsSports car bodiesCast for decorative objects
	Urea formaldehyde	 Rigid Hard Brittle Heat resistant Excellent electrical insulation 	 Plugs, sockets, light switches (electrical fittings) Used as an adhesive in manmade boards

GCSE Design Technology

CORE 1.11 Textiles and fabrics

Tick	Natural fibres	Properties	Uses
	Wool	WarmCreases drop outCan feel itchy	CoatsJumpersBlanketsSuits
	Cotton	CoolAbsorbentResists abrasionDries slowly	TowelsDenimSocksBeddingT-shirts

Tick	Synthetic fibres	Properties	Uses
	Polyester	Strong when wet or dryDries quicklyCrease resistant	RaincoatsFleecesNightwearMedical textilesJackets
	Acrylic	Dries quicklyDurablePoor absorbency	Imitation wool and knitwearUpholsteryBlankets

Tick	Woven textile	Properties	Uses
	Plain weave (calico)	StrongHardwearingPrints well	ShirtsBagsBeddings
	Twill weave (denim)	StrongLess stiffMore interesting to look at due to the weave	JeansJacketsCurtainsBlanketsFurnishings

Tick	Non-woven textile	Properties	Uses		
	Felted wool	Resistant to chemicalsDoesn't frayGood sound insulator	Pool table surfaceHatsSlippers		
	Bonded fibres	Doesn't frayCheapStableNot very strong	Wet wipesFace masksDisposable overalls		

Tick	Knit type	Properties	Uses		
	Warp knit	Fairly stretchyRetains heatDoesn't unravel	GeotextilesLaceFleece		
	Weft knit	StretchyComfortableLadders easily	T-shirtsJumpersSocks		

Different types of textiles:

Natural fibres: come from plants and animals.

Synthetic fibres: are manmade from oil.

Woven textiles: are formed by weaving threads.

Non-woven fibres: are formed by using glue, heat and pressure to combine fibres.

Warp knit: interlocking yarns which are vertical.

Weft knit: interlocking yarns which are horizontal.

Timetable

	1Mon	1Tue	1Wed	1Thu	1Fri	2Mon	2Tue	2Wed	2Thu	2Fri
Reg										
1										
2										
Break										
3										
4										
Reg										
Lunch										
5										
6										