100% book - Year 9 Grammar

Aim to memorise 100% of the knowledge on these Knowledge Organisers



Term 2

Swindon	Academy 2024-25
Name:	
Tutor Group:	
Tutor & Room:	

"If you are not willing to learn, no one can help you.

If you are determined to learn, no one can stop you."







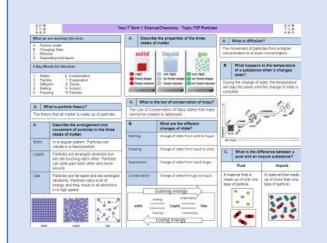




Using your Knowledge Organiser and Quizzable Knowledge Organiser

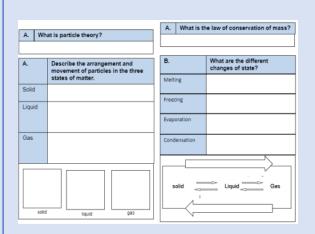
Knowledge Organisers

Quizzable Knowledge Organisers



Knowledge Organisers contain the essential knowledge that you MUST know in order to be successful this year and in all subsequent years.

They will help you learn, revise and retain what you have learnt in lessons in order to move the knowledge from your short-term memory to long-term memory.



These are designed to help you quiz yourself on the essential Knowledge.

Use them to test yourself or get someone else to test you, until you are confident you can recall the information from memory.

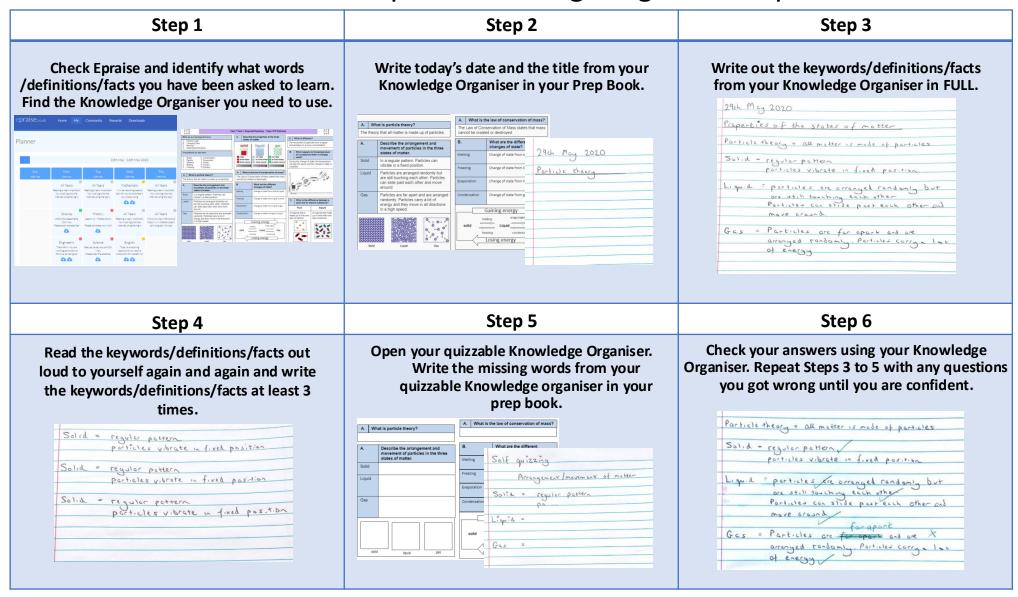
Top Tip

Don't write on your Quizzable Knowledge Organisers! Quiz yourself by writing the missing words in your prep book. That way you can quiz yourself again and again!

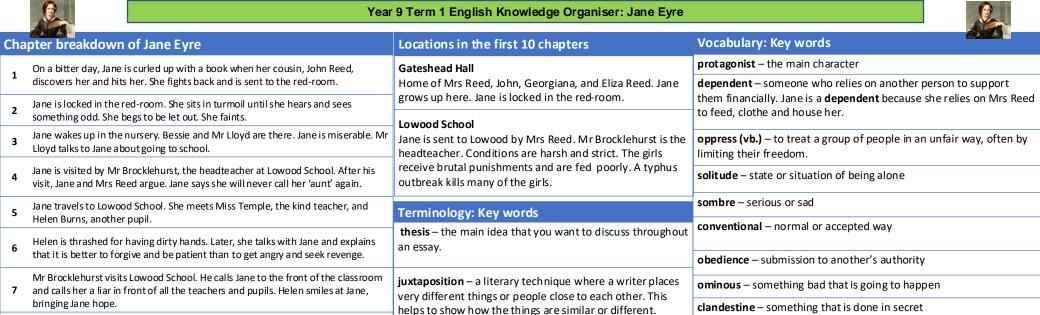
Expectations for Prep and for using your Knowledge Organisers

- 1. Complete all prep work set in your subject prep book.
- Bring your prep book to every lesson and ensure that you have completed all work by the deadline.
- 3. Take pride in your prep book keep it neat and tidy.
- 4. Present work in your prep book to the same standard you are expected to do in class.
- 5. Ensure that your use of SPAG is accurate.
- 6. Write in blue or black pen and sketch in pencil.
- 7. Ensure every piece of work has a title and date.
- 8. Use a ruler for straight lines.
- 9. If you are unsure about the prep, speak to your teacher.
- 10. Review your prep work in green pen using the mark scheme.

How do I complete Knowledge Organiser Prep?



Make sure you bring in your completed Prep notes to demonstrate that you have completed your prep.



Jane Eyre The main character. A young, intelligent, and

passionate orphan. "You think I have no feelings, and that I

can do without one bit of love or kindness; but I cannot live

Mrs Reed - Jane's aunt She neglects and abuses Jane and

is glad to send her away to Lowood School. "Guard against

Mr Brocklehurst - The governor of Lowood school A cruel

and hypocritical Christian. He believes in driving evil from

children through harsh discipline. "Punish her body to save

Helen Burns – Jane's friend A kind and forgiving Christian.

dies of tuberculosis at 14. "Love your enemies; bless them that curse you; do good to them that hate you and

She inspires Jane to be more patient and accepting. She

Miss Temple The kind and understanding teacher at Lowood. Offers care and affection to Jane and Helen. "You

shall be publicly cleared from every imputation: to me,

Characters in Jane Eyre

her worst fault, a tendency to deceit"

so"

her soul"

despitefully use you."

Jane, you are clear now."

humiliate (vb.) - to make someone feel stupid or ashamed. If

as humiliating.

another time.

what they did.

rational being.

Biographical information

school and as a young woman.

Victorian attitudes to childhood

something makes you feel stupid or ashamed, you could describe it

hypocrite – someone who says one thing but does the opposite at

comeuppance – when a villain receives some form of punishment for

A child is a blank slate and can be trained to develop into a

A child is born completely innocent and pure. They are only

The child is born evil and must therefore be controlled and

punished in order to submit to the rules of God and society.

Parts of 'Jane Eyre' were influenced by Brontë's experiences at

'Jane Eyre' was unusual when it was published because it is

written in the first-person from a female perspective.

contaminated by contact with corrupt forces.

1 'Jane Eyre' written in 1847 by Charlotte Brontë.

Afterwards, Jane and Helen visit Miss Temple. Miss Temple says she believes that

conversations. Miss Temple hears from Mr Lloyd that Jane is not a liar and tells

Jane enjoys the area around Lowood in the spring. Typhus breaks out at Lowood

Eight years pass. Jane has become a teacher at Lowood School. Mr Brocklehurst

had his power removed when his treatment at the school was discovered. Jane

Jane is not a liar. Jane listens to Miss Temple and Helen's fascinating

School. Lots of girls get sick. Many die. Helen Bums dies of tuberculosis.

Social Class: Jane is an orphan and dependent on the charity of her

extended family. Jane is poor and of low class – powerless. She suffers

2 back on her childhood in the novel. She learns to manage her emotions.

3 oppression. Adults oppressing children in a huge theme in the novel.

Growth: Jane is constantly growing and maturing. She is an adult reflecting

Oppression: Oppression of women. Jane's abusive childhood is a form of

Role of women in society: Jane is angry at her place in society. Lowood is

4 an all-girls' school. Women as governesses, teachers, servants. Low class

applies to be a governess for a family at Milcote.

Lowood is harsh and corrupt – religious hypocrisy.

Her relationships with others help her grow.

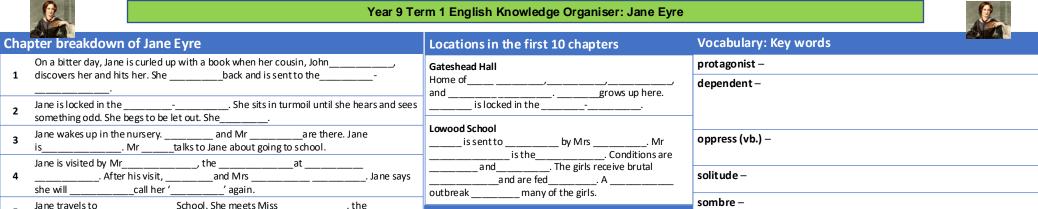
Religion as a form of oppression. In the novel.

abuse by John Reed, her 'master'

women are powerless.

the school.

The Big Ideas:



thesis –.

Jane Eyre

juxtaposition -

Characters in Jane Eyre

Mrs Reed - Jane's aunt

Helen Burns - Jane's friend

Miss Temple

Mr Brocklehurst - The governor of Lowood school

conventional -

obedience -

ominous –

clandestine –

hypocrite –

comeuppance -

Victorian attitudes to childhood

2 A child is born completely innocent and pure...

1 'Jane Eyre' written in ______by Charlotte_____

____and as a young_____.

Parts of 'Jane Eyre' were influenced by Brontë's experiences at

'Jane Eyre' was unusual when it was published because it is

1 A child is a blank slate...

3 The child is born evil...

Biographical information

3 written in the

humiliate (vb.) -

Jane travels to ______, the kind_____, and Helen_____, another_____. Terminology: Key words

_____is thrashed for having _____hands. Later, she talks with Jane and

6 explains that it is better to _____ and be ____ than to get ____ and

Mr Brocklehurst visits Lowood School. He calls Jane to the front of the classroom and

Afterwards, and visit Miss Temple. Miss Temple says she believes

______. Mr ______ had his ______ when his at the school was . Jane applies to be a governess for a

Social Class: Jane is an ______ on the _____ of her extended family. Jane is ______ and of ______ class – _____. She

suffers by John Reed, her 'master'. Lowood is harsh and –

Growth: Jane is constantly and . She is an adult

_____ back on her _____ in the novel. She learns to manage her . Her with help her

Role of women in society: Jane is at her place in .

4 Lowood is an all-girls' school. Women as governesses, teachers, servants. Low

as a form of oppression in the novel.

Oppression: Oppression of . Jane's childhood is a **3** form of oppression. Adults oppressing in a huge theme in the novel.

______. Miss Temple hears from Mr _____ that Jane is not a _____

7 calls her a _____ in front of all the _____ and ____. Helen smiles at

that Jane is a . Jane listens to Miss Temple and Helen's

Jane ______ the area _____ in the _____.

breaks out at Lowood School. Lots of girls get . . Many______ . Helen Burns_____ of_____ . _____ pass. Jane has become a _____ at ____at ___

Jane, bringing Jane____.

family at Milcote.

religious_____.

class women as ______.

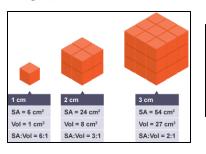
The Big Ideas:

B1 – Cell Biology

Diffusion

 Substances move a higher concentration of that substance (red particles pictured) to where there is a lower concentration of that substance. (High→ Low)

This happens because of the random movement of the particles in a fluid (liquid or gas).





 There are ways the rate of diffusion can be changed:

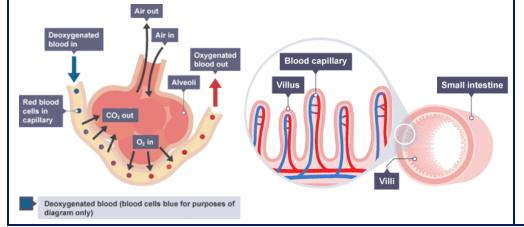
- the difference in concentrations (concentration gradient)
- the temperature
- the surface area of the membrane



Examples

Alveoli in the lungs and villi in the small intestine are both structured in similar ways so diffusion can happen at a high rate (fast).

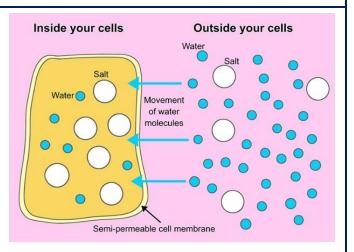
- having a large surface area
- a membrane that is thin, to provide a short diffusion path
- · (in animals) having an efficient blood supply



Osmosis

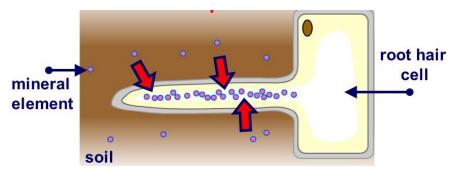
Water may move across cell membranes via osmosis.

Osmosis is the diffusion of water from a dilute solution to a concentrated solution through a partially permeable membrane $(H\rightarrow L)$.



Partially permeable means small molecules can move through but large molecules cannot.

Active Transport



- Active transport is moving substances against the concentration gradient (L→H) so requires energy. This energy comes from respiration.
- This means that cells that carry out a lot of active transport (root hair cells, epithelial cells on villi in the small intestine) contain a lot of mitochondria.

B1 -	- Cell Biology		
1.	What factors affect the rate of diffusion? •	1.	What substance is being transported by osmosis?
	•	2.	What does partially permeable mean?
2.	Give an example in animals where diffusion would take place?		
3.	How are structures in organisms adapted for efficient diffusion? • •		
	•	1.	How is active transport different to diffusion?
4.	Do substances more from a low concentration to a high concentration	2.	Give an example of where active transport happens often in organisms.
		3.	Why do cells that carry out active transport often have a lot of mitochondria?

C2 – Bonding, structure, and the properties of matter

Formation of Ions

- **lons** = a charged particle made when atoms lose or gain electror s-
- Positive ion = atom has lost electrons
- **Negative ion** = atom has gained electrons.

Metals form positive ions

Non-metals form negative ions

Group	lons	Example Lost electrons
1	+1	Li → Li+ e-
2	+2	Ca → Ca ²⁺ + 2e ⁻
6	-2	$0 + 2e^{-} \rightarrow 0^{2-}$ Gained electrons
7	-1	Br + e ⁻ → Br

Metallic Bonding

- Happens in metals only.
- Positive metal ions surrounded by sea of delocalised electrons (can move).
- Ions tightly packed in rows.
- Strong electrostatic forces of attraction between positive ions and negative electrons.

Alloys

- Alloys = mixture of two or more metal atoms
- Pure metals are too soft for many uses.





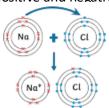


Alloy

- Atoms same size
 - Different sized atoms
- Layers slide
- Layers cannot slide
- Softer
- Stronger

Ionic Bonding

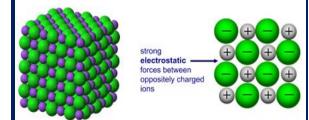
- s- Between a metal and non-metal.
- Metals give electrons to non-metals so both have a full outer shell.
- **Electrostatic force of attraction** between positive and negative ions.



E.g. Sodium loses one electron to become Na⁺. Chlorine gains one electron to become Cl⁻. The two ions attract to form sodium chloride.

Ionic compounds

- Form giant lattices, as the attraction between ions acts in all directions



Properties of Ionic Compounds

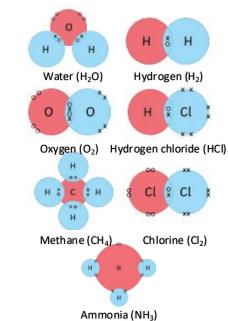
- **High melting point** lots of energy needed to overcome electrostatic forces.
- High boiling point
- Cannot conduct electricity as solid ions cannot move
- Conducts electricity when molten or dissolved – ions are free to move.

Covalent Bonding

- Covalent bonding = sharing a pair or pairs of electrons for a full outer shell.
- Between **non-metals only.**

Dot and cross diagrams

- Show the bonding in simple molecules.
- Uses the outer shell of the atoms
- Crosses and dots used to show electrons
- You should be able to draw the following:



Simple Covalent Molecules

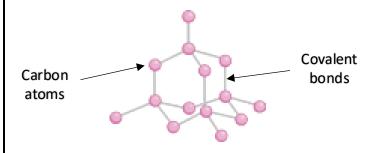
- Form when all atoms have full outer shells so bonding stops
- Examples are the molecules shown above.
- Have low melting and boiling points
- Due to weak intermolecular forces
- Do not conduct electricity

C2	2 – Bonding, structure, and the properties of matter					
1.	What is an ion?	1.	Ionic bonding happens between	1.	What is covalent bonding?	
 3. 	What happens to form a positive ion? What happens to form a negative ion?	2.	What do metals give to non-metals?	2.	What type of atoms does covalent bonding happen between?	
4.	What type of ions are formed by: 1. metals 2. non-metals	3.	What type of attraction is between the positive and negative ions?	3.	Draw dot and cross diagrams for the following:	
		4.	What structure do ionic	Water (H ₂ O)		
1.	What are metal ions surrounded by?	T.	compounds form?			
2.	Name the type of attraction between the electrons and ions.	5.	What are the melting points of ionic compounds like?	Met	thane (CH ₄)	
3.	Why do metals conduct electricity?		•		(0.)	
4.	What is an alloy?	6.	Why can solid ionic compounds not conduct electricity?		gen (O ₂) o simple covalent molecules	
5.	Why are pure metals too soft for some uses?			hav	e a high/low melting point?	
6.	Why are alloys stronger than pure metals?	7.	When can ionic compounds conduct electricity?	6. V	Vhy is this?	

C2 – Bonding, structure, and the properties of matter

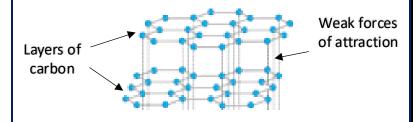
Giant Covalent Structure – Diamond

- Each carbon atom covalently bonded to four others.
- Forms a giant structure
- This makes diamond **strong** → a lot of **energy** needed to break lots of strong covalent bonds.
- **Does not conduct electricity** has no free electrons.



<u>Giant Covalent Structure – Graphite</u>

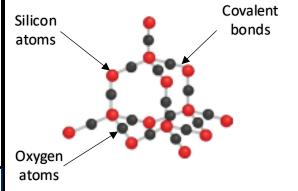
- Layers of carbon arranged in hexagons.
- Each carbon bonded to **three** other carbons.
- Leaves one delocalised electron → moves to carry electrical charge throughout structure.



- Layers held together by weak forces
- Layers can slide over each other easily
- Makes graphite **soft/slippery** → good lubricant.
- Has **high melting point** as has many strong covalent bonds.

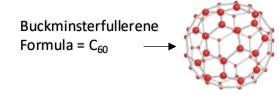
Silicon Dioxide

- Similar structure to diamond
- Giant covalent structure.
- Lots of strong covalent bonds.
- These require lots of energy to break.
- High melting and boiling points.



Fullerenes and Nanotubes

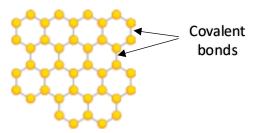
- Molecules of carbon shaped into hollow tubes or balls.
- Used to deliver drugs into body



- Carbon nanotubes = long narrow tubes
- Can conduct electricity
- Can strengthen materials without adding weight.
- Used in electronics and nanotechnology.

Graphene

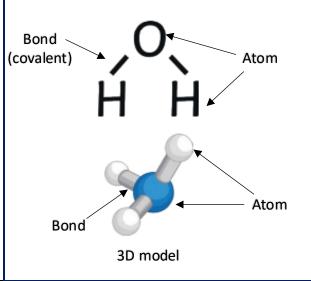
- Graphene = one layer of graphite.
- Very strong → lots of strong covalent bonds.



- Each carbon bonded to three others.
- One free delocalised electron → can move to carry electrical current throughout the structure.

Molecular models

- There are different ways to show a molecule other than dot and cross diagrams.



C2	22 – Bonding, structure, and the properties of matter					
1.	How many bonds do each carbon atom have in diamond?	1.	What structure does silicon dioxide have?	1. 2.	What is graphene? State a property of graphene.	
2.	What type of bonds are in diamond?			۷.	State a property of graphene.	
3.	Why is diamond hard?	2.	Why does this structure have a high melting and boiling point?	3.	How many bonds does each carbon have?	
4.	Why does diamond not conduct electricity?			4.	What does this allow graphene to do?	
1.	What element is graphite made from?	1.	What can fullerenes be used for?	1.	What are three ways that H_2O could be drawn?	
2.	How many bonds does each carbon have?	2.	What is the formula of			
3.	Why can graphite conduct electricity?		buckminsterfullerene?			
4.	What holds together the layers of graphite?	3.	State two uses of carbon nanotubes.			
5.	Why is graphite soft/slippery?					
6.	Does graphite have a high/low melting point?					
7.	Why?					

Current, resistance and potential difference

Electrical current is the flow of electrical charge.

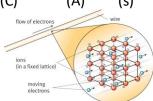
Current is measured in amps (A), charge is measured in Coulombs (C).

The size of the current depends on the rate of the flow of charge – ie how many coulombs of

charge per second.

Q=It

Charge = Current x time
(C) (A) (s)



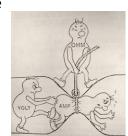
Ohms Law

The current through a component depends on the potential difference and the resistance of the component.

If a component has high resistance, the current will be smaller for a given potential difference

potential difference = current x resistance **V = I R**

pd is measured in volts (V), resistance in Ohms (Ω)

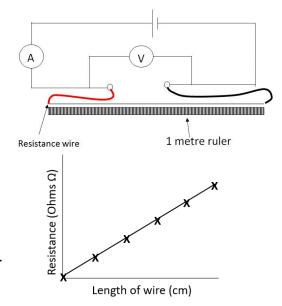


Hypothesis 'the length of the wire affects resistance'

Independent variable – length of wire Dependent variable – resistance Control variables – type of wire, temperature of the wire, diameter of the wire

- Set up the circuit as shown, with an ammeter in the circuit and a voltmeter connected across the wire
- 2. Use crocodile clips to change the length of the wire in the circuit
- 3. Make the wire 10cm long and read the current and pd. Switch off the current between readings or the wire will got hot, increasing the resistance.
- 4. Repeat for 20, 30, 40, 50 cm. (5 minimum)
- 5. Calculate resistance using Ohms Law R = V/I

Plot length of wire (IV) against resistance (DV)

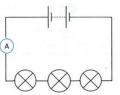


The relationship is directly proportional

Series and parallel circuits

Series circuits:

A series circuit is one single loop

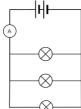


In a series circuit:

- the current is the same at all points in the circuit.
- potential difference is shared between components (equally if components are identical resistance)
- total resistance = sum of all resistors

Parallel circuits

A parallel circuit consists of more than one loop from the battery/cell.



In a parallel circuit:

- The current is shared amongst the branches
- The potential difference is the same across all components
- Resistance in the whole circuit is LESS than that of the smallest resistor

Current, resistance and potential difference

- 1. What is current?
- 2. What is the unit for charge?
- 3. What is the unit for current?
- 4. What is the equation linking charge, current and time?
- 5. What is the equation linking current, potential difference and voltage?
- 6. If a component's resistance increases, what happens to current through that component?
- 7. What is the unit for resistance?

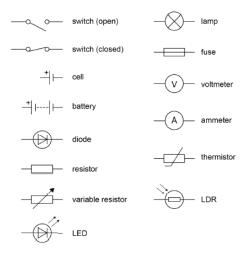
Hypothesis 'the length of the wire affects resistance'

- 1. What is the independent variable in this investigation?
- 2. What is the dependent variable?
- 3. What is the minimum number of readings needed for a line graph?
- 4. What two readings are taken?
- 5. How is resistance calculated?
- 6. What sort of relationship is seen?
- 7. Why is it important to turn off the power in between readings?

Series and parallel circuits

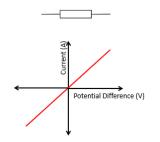
- 1. What is a series circuit?
- 2. In a series circuit, the current is......
- 3. How do you find total resistance in a series circuit?
- 4. The potential difference is shared equally among components as long as.......
- 5. What is a parallel circuit?
- 6. What is true about potential difference across all of the components in a parallel circuit?
- 7. How is total current calculated in parallel?
- 8. What is true for total resistance in a parallel circuit?

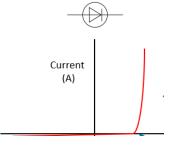
Components



- A diode only allows current to flow one way in a circuit
- A resistor is a component that provides a fixed resistance in the circuit – e.g a 5 Ω resistor
- A **variable resistor** is a component whose resistance can be changed (e.g a dimmer switch)
- A thermistor is a resistor whose resistance changes with temperature – the higher the temperature the lower the resistance
- An LDR (light dependent resistor) has resistance that changes
- An LED (light emitting diode) is a light that only allows the flow of current one way

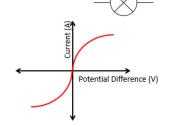
Current, potential difference and resistance for different components





A fixed (ohmic) resistor

has fixed resistance current is directly proportional to potential difference Resistance remains constant (at constant temp) A diode very high resistance in one direction.
Only when the potential difference is positive does current flow



A filament bulb contains a thin wire that glows as current flows.
As the pd increases, the current initially increases.

However, at higher pd, the wire gets hot

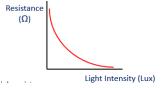
The ions in the wire move faster and collide with the moving charges
Resistance increases, so current stops increasing

LDR



A light dependent resistor has varying resistance.

As the light intensity increases, the resistance decreases



LDRs can be used to switch on lights at night time.



In this circuit, when it is day time, the resistance in the LDR is low, so all current flows through the LDR.

As light levels fall, resistance increases, until eventually there is less resistance in the bulb than the LDR, so current flows through the bulb – switching it on.

Thermistor



As the temperature increases, the resistance in a thermistor decreases.

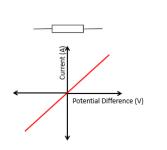
Components

Symbol	Name
	Cell
	fuse
—(A)—	
	Voltmeter

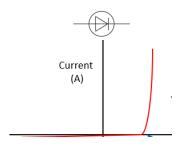
- 1. Complete the table opposite
- 2. Which component has a resistance that decreases as light intensity increases?
- 3. Which component only allows current to flow one way?
- 4. What is a fixed resistor?

Current, potential difference and resistance for different components

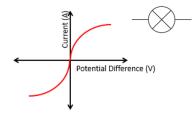
1. What readings would you need to take from a circuit to calculate resistance?



2. Describe the relationship shown



3. Why is there no current on one side of the graph?



- 4. What happens to current when the pd rises at first?
- 5. What happens to the current as the pd gets higher?
- 6. Why does the resistance increase at higher pd?

LDR

- 1. Draw the symbol for an LDR
- 2. Draw the pattern you would expect for resistance as the light intensity increases.

The circuit below is for a night light. What is resistance in the LDR like during the day time? (high light levels)



- 4. Why does the light switch on when it goes dark?
- 5. Draw the symbol for a thermistor
- 6. Describe the relationship between temperature and resistance in a thermistor

Climate Change

Background:

- Since the 1860s the global climate has been recorded.
- Since then the climate globally has increased by 0.8° Celsius.
- Climate scientists can use methods to find out about the global climate before we started recording it. (B)
- From this evidence we can see that the planet has always gone through periods of warming and cooling. (A)
- 5. However, the rapid increase of carbon dioxide in the atmosphere from burning fossil fuels, is causing the enhanced greenhouse effect. (D)
- The enhanced greenhouse effect is causing changes to the planet, such as the melting of Artic sea ice, rising temperatures, and an increase in extreme weather events such as tropical storms.
 (F. F)
- Countries are trying to resolve the climate change issue by limiting the amount of carbon dioxide released into the atmosphere, this is known as mitigation. (G, H)
- 8. Some countries are trying to adapt to climate change by building flood barriers and growing drought resistant crops. (G, H)

A.	Changes in climate (3)		
Climate change		The process of the Earth's climate changing over time.	
Glacial periods		Cold periods.	
Inter-glacial periods		Warm periods.	

В.	Mea	uring climate change (3)		
Ice cores		Each layer of ice in a core represents a different year. CO ₂ can be measured in each layer, and therefore the temperature.		
Tree rings Historical evidence		Each ring represents a different year. Thicker rings show a warmer climate.		
		Paintings and diaries e.g. paintings of ice fairs on the frozen Thames 500 years ago.		

	C. Natural climate change (3)				
				om volcanic eruptions can block t, making it colder.	
				n can give out more energy due norease in sun spots.	
				oit of the sun changes from oval) to circular approx. 98,000 yrs.	
	E.	Effect	s on peo	pple (6)	
	Tropical storms			Increase in frequency and intensity so more damage.	
	Sea-level rise Melting Arctic ice		е	Increased risk of floods, damaging property and businesses.	
			cice	Affects trading routes in the Arctic Circle.	
	More droughts/ floods		ts/	Crop failure, could lead to starvation and famine.	
	Cost of defence		nce	Governments have to spend more money on disasters instead of developing.	
	Environ mental Refugees			Pressure on countries to accept refugees.	

1			
ļ	G.	Strategies	to resolve climate change (4)
	Adaptation		Adapting to climate change to make life easier.
	Adaptation examples (3) Mitigation		Building flood defences. Growing new crops to suit the new climate. Irrigation channels, sending water from areas of surplus to deficit.
1			Trying to stop climate change from happening by reducing greenhouse gases.
	Mitiga exam	ation uples (3)	International agreements. Alternative energies. Carbon capture.

D.	Human-induced climate change (5)		
Greenhouse effect		The way that gases in the atmosphere trap heat from the sun. Like glass in a greenhouse they let heat in, but prevent most from escaping.	
Greent gases	nouse	Gases like carbon dioxide and methane that trap heat around the Earth, leading to dimate change.	
Transport		More cars, so more CO ₂ causing the enhanced greenhouse effect.	
Farmin	ıg	Farming livestock produces methane, this is a greenhouse gas.	
Energy		More energy required, meaning more fossil fuels burnt, so more CO ₂ .	

	F.	Effects on th	e environment (4)		
	Sea temperature rises More droughts		Coral bleaching and destruction of marine ecosystems.		
			Migration/ death of species which can not survive drought conditions.		
	Meltin rivers	ng glaciers (ice)	Will send more fresh water into the sea, causing the sea level to rise.		
	Meltin	ng Arctic ice	Loss of habitats for animals, such as polar bears.		

H.	Place specific examples (2)						
Adaption		The Thames Barrier. Positive: Stops flooding due to rising sea levels. Negative: Expensive					
Mitigat	tion	The Paris Agreement. Positive: Countries are trying to lower CO ₂ emissions. Negative: The USA pulled out and China did not sign up.					

Climate Change Natural climate change (3) D. Human-induced climate change (5) Volcanic Background: Greenhouse eruptions effect Since the 1860s the global climate has been recorded. Sun spots Since then the climate globally has increased by 0.8° Celsius. 2. Greenhouse Climate scientists can use methods to find out about the global climate before 3. gases we started recording it. (B) Orbital From this evidence we can see that the planet has always gone through change periods of warming and cooling. (A) Transport However, the rapid increase of carbon dioxide in the atmosphere from burning 5. Effects on people (6) fossil fuels, is causing the enhanced greenhouse effect. (D) The enhanced greenhouse effect is causing changes to the planet, such as 6. Farming the melting of Artic sea ice, rising temperatures, and an increase in extreme Tropical storms weather events such as tropical storms. (E, F) 7. Countries are trying to resolve the climate change issue by limiting the Sea-level rise amount of carbon dioxide released into the atmosphere, this is known as Energy mitigation. (G, H) 8. Some countries are trying to adapt to climate change by building flood barriers Melting Arctic ice and growing drought resistant crops. (G, H) More droughts/ Effects on the environment (4) floods Sea temperature Cost of defence rises Changes in climate (3) Environ mental Refugees More droughts Climate change Melting glaciers (ice rivers) Strategies to resolve climate change (4) Glacial periods Adaptation Melting Arctic ice Inter-glacial periods Adaptation examples (3) н. Place specific examples (2) Measuring climate change (3) Mitigation Ice cores Adaption Mitigation examples (3) Tree rings Mitigation

Historical evidence

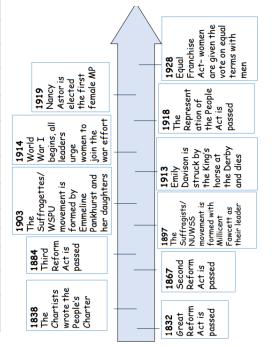
Year 9 Unit 2: The Suffragettes Knowledge Organiser

What we are learning this term:

In this unit students will study how women strove towards equal voting rights throughout the 19th century and the impact this had on how women were perceived. Students will also study how and why the electorate widened in general, including the place in society of working-class men A. Key words for this unit B. Key people and their roles in the suffrage movement C. Key events and dates in the suffrage movement D. Suffragists vs Suffragettes

A.	Can you define these key words?					
Act	a written law passed by Parliament					
Propagand a	information used to promote a political point that can be misleading or untrue					
Ballot	a system of voting on a particular issue					
Reform	make changes in order to improve something					
Charter	a written statement of the rights of a specified group of people					
Representati on	Speaking or acting on behalf of someone					
Democracy	A system of government by the whole population typically through elected representatives.					
Rotten boroughs	a borough that was able to elect an MP despite having very few voters, the choice of MP typically being in the hands of one person or family					
Enfranchisem ent	To be given the right to vote					
Strike	an organised refusal to do something expected or required typically to gain a concession					
Manifesto	A public set of aims written down					
Suffrage	The right to vote					
Parliament	a group of people who make the laws for their country					
Tactics	An action or strategy carefully planned to achieve a specific end					
Petition	A formal written request, typically one signed by many people, appealing to authority in respect of a particular cause					

Key conc	ept: Causation				
Long term	Factor(s) that were around or happened significantly before hand. E.g. Success of protests for male suffrage, demands of the Chartists				
Short term	Factor(s) that happen relatively close to the event you are studying. E.g. Militant actions of the Suffragettes				
Spark or Trigger	A significant factor or turning point, that has an immediate impact that sets a sequence of events in motion that won't turn back. E.g WW1 and changing role of women.				



_	
В.	Key people
Nancy Astor	The first women elected as a Member of Parliament (MP)
Emily Davison	Joined the WSPU in 1906. Was struck by the King's horse at the Epsom Derby and killed in 1913.
Benjamin Disraeli	A Conservative Prime Minister (1868, 1874-80) who introduced the Second Reform Act
Millicent Fawcett	Founded the Suffragists/NUWSS in 1897
William Gladstone	A Liberal politician who served in Parliament for over 60 years and four times as Prime Minister. He passed the Third Reform Act, extending the vote to all male homeowners.
Earl Grey	A Whig Prime Minister who proposed the Great Reform Act in 1831 and resigned when the House of Lords rejected it.
Annie Kenney	A working-class socialist feminist who was active in the WSPU as a militant member and was arrested.
William Lovett	The leader of the Chartist movement and wrote the People's Charter in 1838
Christabel Pankhurst	Speaker for the WSPU in 1905. She trained as a lawyer but could not practice as a woman. She fled the country in 1912 for fear of rearrest, and unsuccessfully ran for parliament in 1918.
Emmeline Pankhurst	Founded the WSPU in October 1903 and encouraged militant action as a form of protest. Was a rrested many time, she went on hunger strike and was force-fed. Mother of Christabel.

D.	Suffragists	Suffragettes				
Men and wo	omen who were fighting for women right to vote	Just women who wanted more extreme action				
Leader Milio	ent Fawcett	Leader – Emmeline Pankhurst				
Formed in 18	97	Formed in 1903 after splitting from the Suffragists				
	ets, petitions and marches to help ople to their cause	Used Protests and damaging property to help persuade people to their cause				
	·	·				

Women were given the right to vote from age 30 (men 21) by the 1918 Representation of the People Act. They were given the right to vote at the same age as men (21) in the 1928 Representation of the People Act.

Year 9 Unit 2: The Suffragettes Knowledge Organiser

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Α.	Can you define these key words?
Act	
Propagand a	
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Charter	
Representati on	
Democracy	
Rotten boroughs	
Enfranchisem ent	
Strike	
Manifesto	
Suffrage	
Parliament	
Tactics	
Petition	

niser			Key concept: Causation							
al			Long t	erm						
a 1	d		Short term							
	Iu		Spark Trigge							
	1919 Names	Astor is elected the first	female MP				ation of Act-women the People are given the Act is vote on equal			
World War I begins, all leaders urge women to join the				War ettor	-	1913 191 Emily The Davison is Rep				
200	The Suffragettes/	w.SPU movement is formed by	crimeine Pankhurst and her daughters	-	-		movement is the k formed with horse			
	1884 Third	Reform Act is passed		-		1867 Th Second Sur		rav the		
	1838 The	Chartists wrote the People's	Charter		-	1832 Great Deform	Act is passed			

В.	Key people
Nancy Astor	
Emily Davison	
Benjamin Disraeli	
Millicent Fawcett	
William Gladstone	
Earl Grey	
Annie Kenney	
William Lovett	
Christabel Pankhurst	
Emmeline Pankhurst	

D.	Suffragists	Suffragettes

A.	Can you define these key words?	47	Year 9 Religious Education: Matters of Life and D					loring this term: situation ethics, natural moral law, asia, death penalty
Key wo		В	Natural moral law - Aquinas		С	Joseph	h Fletcher – Situation Ethics	
Subject	dive Based on personal beliefs, feelings or opinions		God made truths and rules about wha	pat is right and wrong e.g. the 10			ght and wrong depends on the s	ituation
Objecti	personal beliefs or feelings	1	commandments Everything in existence has a purpose			Bas	ouniversal rules sed on agape – unconditional lo sed on Jesus – "love thy neighb	
Natural law	The view there are universal moral standards that are inherent in humankind			we must stick to in order to be good and		• Eve	ery moral action is based on wh mpassionate thing to do	
Primary pre cep	pts preserve life		overcome evil Preserve innocent life Reproduce		D	Situation	n Ethics strengths	Situation ethics weaknesses
Second pre cep			Educate children Live in an ordered society Worship God	у		perso	personal – sensitive to a on's circumstances	It isn't clear what 'love' means – may be different for different people
F	Abortion	I	Secondary precepts can be determined fro	from the 5 primary ones		a cas	particular – moral decisions on se by case basis based on doing good – teaches	It is difficult to implement It cant produce consistent results –
Abo	Deliberate ending of a pregnancy	В	Natural law strengths	Natural law weaknesses		that r	right acts are motivated by the	Using 'love' to do unloving things
rtion	Reasons Living in poverty Low quality of life Impact on physical or mental health of mother and child No support system Arguments for Arguments against Moman has the right to choose as it is her body In the case of rape it would be lacking in compassion to not allow it Woman may be too young or have commitments Pregnant woman's health and welfare Living in poverty Roman Catholics believe life begins at conception Abortion in the case of rape is still wrong "the son shall not bear the guilt of the father" Everyone has the right to live and reach their potential		Quality of life may have been impacted Human beings have free will Humans can decide when and how to die Enables someone to die with dignity Death is a private matter and state	If you do not believe in God then there is no God given purpose to fulfil Not all people share a common nature rminal illness to end their suffering Disagree Some people unexpectedly recover Discourage the search for new cures for terminal illnesses Palliative care is available Goes against sanctity of life – God made humans in his image Undermines commitment of doctors	Qu G Ca Endir	apital puni	(Genesis) Christians should care for hu with respect "God created man in his imag" "Thou shall not kill" "Your body is a temple of the "You created every part of m Description of how good som E.g. how comfortable they ar how much money they have sishment	mans because it is God's creation – treat it ge" Holy Spirit" e" Heone's life is e, how easy it is to live through each day,
	that that of the foetus • Quality of life of woman can be affected by birth • "Clothe yourself in compassion"/"lov e thy neighbour" abortion • Destroys human life and makes life appear cheap and disposable — impacts the quality and value of life • People born with disabilities can live full and happy lives • Goes against sanctity of life	alternatives e.g. abortion Destroys human life and makes life appear cheap and disposable — impacts the quality and value of life People born with disabilities can live full and happy lives Goes against Death is a private matter and state should not be involved It is expensive to keep someone alive - funds and resources could be used to help someone who could live Family and friends would be spared the pain of seeing their loved one suffer		and nurses Weaken society's respect for the value and importance of human life	• F F F F F	humans sl "Life for lift "Prote ct th People will committing It can be ex in prison fo Brings justi family Protect other	hall their blood be shed" ife" he weak and needy" be deterred from the same crime expensive to keep a prisoner	Sometimes an innocent person may be put to death when they shouldn't be Love thy neighbour Clothe yourself in compassion Jesus said that we should forgive 7x70

A.	Teal of Neighburg Education. Matters of Elife and De			eath	What we are exploring this te abortion, euthanasia, death p			loring this term: situation ethics, natural moral law, usia, death penalty			
Key w	<u>Key definition</u>		В	B Natural moral law - Aquinas			Ι.	loseph Fletcher – Situ			
Subjec	tive					· · · · · · · · · · · · · · · · · · ·					
Object	ive										
Natura law	ıl moral										
Primai pre cep	y ots						D	Si	tuation Ethics strengt	ths	Situation ethics weaknesses
Secon pre cep											
F	Abortic	on									
Abo				В	Natural law strengths	Natural law weaknes ses					
rtion								E	Sanctity of life ar	nd quality of li	fe
								ın ctit			
							У				
	Argume	ents for	Arguments against	1							
	J		3	FE	Euthanasia	•]				
				En	Ending a person's life due to suffering or a terminal illness to end their suffering						
				Agı	ree	Disagree	Qı		ality		
									al punishment		
									person's life as a puni		
							Agre	е			Disagree
							1				
				l							



SPANISH Year 9 Term 2 Knowledge Organiser: Topic = Food, drink and sports



What we are learning this term:

- Free time activites
- B. Food and Drink
- C. Sports
- D. Foods
- E. Sports
- Key words across topics

6 Key Words for this term

- Almuerzo
- 2. Ceno

3.

- 4. Peligroso 5. evitar
- Desayuno 6. cambiar

A. 3.1H Hablando del tiempo libre

aburrido/a agradable al aire libre batería la canción dar un paseo de vez en cuando Desafiante divertido/a **Emocionante** entretenido/a la entrevista estar en forma grabar la letra relajante la rutina la tarde el terror

boring pleasant in the open air drums sona to go for a walk From time to time Challenging fun excitina entertaining interview to be fit to record lyrics, words relaxing routine afternoon, evening horror

B. 3.2G Cor	ner y beber						
el agua (mineral)	(mineral) water						
beber	to drink						
el bocadillo	sandwich						
la came	meat						
la cena	evening meal						
cenar	to eat evening meal						
comer	to eat						
la comida	lunch, food, meal						
desayunar	to have breakfast						
el desayuno	breakfast						
después	afterwards						
el perrito caliente	hot dog						
el pollo	chicken						
el postre	dessert, pudding						
el queso	cheese						
Tomar	to take, to have (food,						
	drink)						
la tortilla	omelette						
la tostada	toast						
el vaso	glass						

C. 3.3G ¿Haces deporte?

active

activo/a al aire libre

ayudar el baloncesto el campo la cancha los deberes la equitación el estadio montar a caballo montar en bicicleta la natación pasar el patinaje la pista de hielo el polideportivo tranquilo/a

in the open air, outdoors to help basketball countryside, field court (tennis) homework horse riding stadium to ride a horse to ride a bike Swimming to spend time skating ice rink sports centre peaceful, quiet

Key Verbs					
Ser To be	<u>Tener</u> <u>To have</u>		<u>Past</u>	<u>Future</u>	
Soy	Tengo	Hablo	Hablé	Voy a Hablar	
= I am	= I have	I speak	I spoke	I am going to speak	
Eres	Tienes	Como	Comí	Voy a comer	
= You are	= You have	I eat	I ate	I am going to eat	
Es	Tiene	Voy	Fui/fue	Voy a ir	
= s/he is	= s/he has	I go	I am/it was	I am going to go	
Somos	Tenemos	Soy	Fui	Voy a ser	
= We are	= We have	I am	I was	I am going to be	
Son = They	Tienen	Tengo	Tuve	Voy a tener	
are	= They have	I have	I had	I am going to have	

la basura el bocadillo el/la camarero/a dejar

la aceituna

la lata

optar por

las legumbres

escoger los espaguetis el/la esposo/a el gusto

waiter to leave, to let, to choose Spaghetti husband, wife taste tin, can Pulses (lentils) to opt for

rubbish, junk

Sandwich

E. 3.3F ¿Qué deportes harás?

D. 3.2HUna cena especial

olive

rock climbing el alpinismo tired cansado/a la carrera race Competition(contest) el concurso durante during el entrenamiento training entrenar to train el equipo team ganar to win el jugador player mañana tomorrow el miembro member el partido match

F. Key Words across Topics?

to be = ser to go = ir to do = hacer to play =jugar to see = ver to listen=escuchar to buy =comprar to live =vivir to speak= hablar to have to = deber to want to=querer to visit = visitar to eat - =comer to drink = beber to go out = salir to read = leer to work = trabajar to think = pensar to write =escribir

to have = tener

Inutil - useless Comodo – comfy Interestanteinteresting Entretenido entertaining Emocionante exciting Guay - cool Genial - great Soso - dull Asqueroso disgusting Malo-bad Bueno - good Arriesgado-risky Educativoeducational Estimulatestimulating Peligrosodangerous

Divertido – fun

Util - useful

Aburrido – boring



G. Translation Practice	
For lunch, and for breakfast I drink tea	pea,ype dbt
The prawns are delicious	lgsd
The chips are cold	lpfsf
The food is bad	lcem
Normally I eat salad everyday	ncetld
The soup is tasty	Ises
The salads are delicious	lesd
I think that chicken is more	pqepem
tasty than pork	sqec
I think salad is more healthy than ice cream	pqeemsq h
I believe that ice cream is	cqhemg
more fatty than salad	qe
We are going to go out to eat	vasac
They are going to buy a present	vacur
We are going to celebrate my	vacecd
grandma's birthday	m a
I am going to prepare a	vapupcs
healthy hot dog	rupupus
Often they play basketball in the free time	amjabel tl
Usually we listen to music every day	amemtl d
I hope to visit my grandma's house	evlcdma
I'm going to cook chicken and chips	vacpcpf
I have to cook every day	tqctld
I'm thinking of watching TV tonight	pvlthplt
For breakfast, I drink milk	ped, bly c
and eat a sandwich For desert, they eat cake	ub pep,cp
·	
For breakfast, I take salad and chicken	ped, tey
The football match was good	Epdffb

	H . Key Questions: Answer the following in your own words. Use these model answers					
¿Qué deberías hacer para mejor proteger tu forma/tu salud? What should you do to improve your health?		Debería hacer ejercicio físico durante 30 minutos cada día. Para mejorar tu salud, hay que comer cinco raciones de verdura o fruta cada día, no tienes que comer demasiada came roja/caramelos/gaseosas, no deberías fumar cigarrillos o porros, no debes consumir tanta grasa en la comida, no debes tomar las drogas duras/blandas.				
	¿Qué deberían hacer en los colegios para mejorar la salud de los jóvenes? What should schools do to improve health of Young people?	En los colegios, solo deben vender comida sana, no deberían vender gaseosas/bebidas azucaradas/deben mejorar la cantidad de fruta y verdura/deben mejorar la cantidad de ejercicio físico que tienes que hacer durante la semana.				
	¿Qué comes para el desayuno, la cena, tu almuerzo? ¿es sano? What do you eat for breakfast, dinner, lunch? Is it helahty?	Para el desayuno, como normalmente los cereales que son deliciosos con zumo de naranja. Para la cena como normalmente carne con patatas y verduras con mi familia en casa que es un poco sano. Para mi almuerzo, como un bocadillo con jamón y queso en el colegio con agua o coca. Ayer desayuné cené comí para mi almuerzo				
Legion de la composition del composition de la composition de la composition de la composition de la composition della composition de la composition de la composition della c						
	I. Key Questions: Try	to translate the model answers using words from the KO				
	¿Qué te gusta comer/beber? What do you like to eat/drink	For breakfast I like to eat toast but I never eat cereals because they aren't tasty. For lunch I eat a sandwich with ham or cheese or I eat pizza with ham or sausage. For my main meal normally I eat chips with meat or fish or vegetables with potatoes				
	¿Eres Sano? About your family	I think I'm healthy because I don't smoke and I like to eat lots of fruit. I like to eat vegetables but I have to eat more vegetables and I have to eat less sweets				
¿Qué es tu opinión de fumar? What is your opinion on smoking I do not like smoking because I think that it is stupid. My brother smokes and it sn bad. Also, it causes cancer and is really dangerous		I do not like smoking because I think that it is stupid. My brother smokes and it smells bad. Also, it causes cancer and is really dangerous				
A Qué te gusta hacer en tu tiempo libre y por qué? What do you like doing in your free time Normally in my free time I like to play football. I play football after school every day ar from time to time I play rugby. I don't like to dance because it's boring and I love to play football after school every day ar from time to time I play rugby. I don't like to dance because it's boring and I love to play football.						
ı						

J. Key Grammar			
Make sure adjectives agree eg blanco/blanca/blancos/blancas	Mi casa es blanca = My house is white Mi perro es blanco = My dog is white		
Using verbs correctly in the present tense	Hablar hablo, hablas, habla, hablamos, habláis, hablan Como, comes, come, comemos, coméis, comen		
Comparatives More /less Better/worse The best/the worst	Más/menos que – more/less than Mejor/peor que – better/worse tan Lo mejor/lo peor = the best/the worst		

What we are learning this term:

- A. Ines Kouidis
- B. Michael Volpicelli
- C. Techniques and skills

A. How has Ines Kouidis created this im	nage?
---	-------

What materials has she used? Ines uses a range of scrap materials including envelopes, scrap paper, newspapers, old magazines and cardboard.

How has she torn the material?
Ines doesn't use scissors often, but
more she tears the material so to get
a rough edge to her work. A type of
uneven and rustic approach to her
outcomes.

What impact do smaller pieces of material have? She is very particular about the size of pieces she is collaging. Smaller and more detailed pieces can form darker areas and

shadows. Lagers and lighter pieces are the highlights. The smaller the pieces, the longer it will take her-however the more intricate it will become.

Who does she make collages of?

She usually makes collages of famous people in history, who might be dead or alive today. These people influence her making and have had an impact on Ines' live. They are her main inspiration.

F.	Keywords
Appropriate	Suitable for a particular person, place or condition
Highlight	An area of lightness in an image
Shadow	When an objector artwork intercepts light and causes an obscurity
intricate	Having many complexly arranged element
relevant	Having a bearing or connection with the subject or matter

C How to make a collage.

Collage: is a form of art by cutting and ripping paper to create interesting artworks.

Steps for making your collage:

- Start by having an image as a source, something you will use as a guide to follow or for inspiration
- 2. Use a range of different types of paper, such as; scrap paper, newspaper, card, coloured paper.
- 3. Tear the paper to get a jagged edge, cut with scissors to get a straight edge.
- 4. The smaller the pieces of paper, the more detailed the outcome.
- 5. Darker paper in more shaded areas. Lighter paper in highlighted areas.
- Add additional details on the face and in the background, following the same technique as step 2 and 3.

What each tool is used for:

Cutting mat	To protect the table from damage.
Glue stick	To cleanly stick the shapes onto paper.

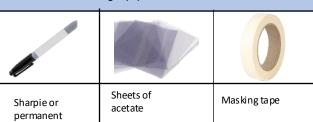
Looking at the image drawn by Michael Vollpicelli, how does he create.....

1. Darker areas? Michael creates darker areas on the portrait by doing smaller words that are closer to one another to create shadowing.

2. Lighter areas? Words further apart and larger will be lighter

C. Name the following equipment.

marker



B. Answer the following questions about Michaels work and how he works.

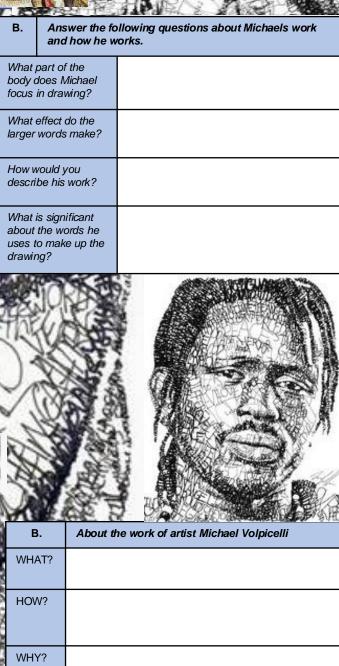
What part of the body does Michael focus in drawing?	Michael focuses in on the face and facial features. This is called portraiture.		
What effect do the larger words make?	The larger words make highlighted areas on the face		
How would you describe his work?	Meaningful, cultural identities, typography, portrait,		
What is significant about the words he uses to make up the drawing?	The words he uses are meaningful to that particular person. They might be words that describe them, or what they do, what impact they have or their personality.		



CALL MANAGEMENT CONTRACTOR OF THE PROPERTY OF				
B.	About the work of artist Michael Volpicelli			
WHAT?	Michael creates word art using a variety of sizes to make up a portrait of a person.			
HOW?	Use uses a fine permanent marker to draw with words. Larger words create a highlight and smaller more scrammed words create shadows and darkness.			
WHY?	Michael draws people using words he thinks describes them. Kind and thoughtful words to spread the kindness.			

What we are learning this term: Ines Kouidis B. Michael Volpicelli C. Techniques and skills How has Ines Kouidis created this image? What materials has she used? How has she torn the What impact do smaller pieces of material have? Who does she make collages of? Keywords F. Appropriate Highlight Shadow intricate relevant

7 7		STATE OF STREET WATER A	
В.		to make a collage.	C How
	â		Collage:
Wh boo		aking your collage:	Steps for ma
foc			1.
Wh	ž.		
larg	2		2.
Но	6		
des	1		3.
Wh	i i		
abo use	ğ		4.
dra	9		
de la	8		5.
7	2	tool is used for:	What each t
11	7		Magazines
1		•	Glue stick
Y		TURE	BA/
× .	Michael	king at the image drawn by picelli, how does he create	Look Vollp
		eas?	Darker are
1			
N	The Control of the Co	s?	2. Lighter areas
		following equipment.	C. Name the f
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YEAR 9 GRAPHIC COMMUNICATION

What are we learning this term?

Typography Logos

Computer skills

Evaluation

E

A | Logos

What is a logo?

A graphic design element that includes words and images, shapes, symbols or colour.

How does Alex Trochut design logos?

Alex Trochut collaborates with brands to create new catchy designs. He uses text and imagery to create visual art. The viewer first notices the imagery but looks closer to find a hidden message through typography.

B | Typography

Draw your initials in the typographic style of designer Alex Trochut work



C | Computer skills

D

Key words

What is the shortcut for copy?

Ctrl + C

What is the shortcut for paste?

Ctrl + V

What does this symbol stand for?



Photoshop

What does this symbol mean?



Cropping

D| Key words

Merchandise	Branded products used to promote and sell a product
Combined Logo	A logo that uses both images and text
Photoshop	A software for editing photos and graphics. It is used for image editing, making illustrations or web design.
Photo Editing	The act of image and enhancement and manipulation

E | Evaluation

Evaluation: To judge or give an opinion

Designers will evaluate their products to see what works well and what doesn't. This way they can make any improvements on their current designs to ensure a high-quality product.

When writing an evaluation it is important to include the following three things:

- 1. Positives what works well
- 2. Negatives what doesn't work well
- 3. Possible improvements how could you make it better? For example:

My tote bag looks great, the colours are bright which appeals to the audience of the festival. However, I have not designed a combined logo. One improvement I could make is to use images and text to create a combined logo.

YEAR 9 GRAPHIC COMMUNICATION

				,		,	
What are we learning this term?					D Key words	D Key words	
A Logos	B Typography	C Computer skills	D Key words	E Evaluation	Merchandise		
A Logos					Combined Logo		
What is a logo?					Photoshop		
How does Alex Troc	hut design logos?				Photo Editing		
				_	E Evaluation		
B Typography		C Co	C Computer skills			dge or give an opinion	
What is the shortcut for copy? What is the shortcut for paste? What does this symbol stand for? What does this symbol mean?			paste? stand for?	following three t 1. Positives – w 2. Negatives – v	-		



Year 9 PRODUCT DESIGN Rotation Knowledge Organiser



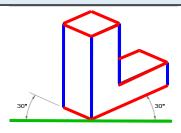
What we are learning this term:

- A. Drawing Skills
- B. Materials
- C. Wooden Joints & Their Uses
- D. Tools & Machinery

A. Drawing Skills

Isometric Technical Drawing

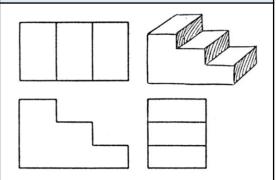
Made up of a series of par parallel **vertical lines** and parallel **30-degree lines**. But no **horizontal lines**.



Used to show a 3D (3-dimensional) perspective of a object or product.

Orthographic Projection

This shows 2D views of a 3D object from different angles – front, plan and end.



Commonly used in industry to help the manufacturer understand the design.

B. Materials

Timbers come from trees



Scots pine – which you used for your frame – is a softwood

Softwood trees have needle like leaves and are more sustainable

Dowels are a common **component** in joinery



Dowels – which you used in your dowel joint – is a **hardwood**

Hardwood trees have broad like leaves and loose their leaves in winter

Polymers come from crude oil



Acrylic – which you used for your stand – is a **polymer**

Acrylic is a thermoforming polymer which means it can reheated and reshaped again and again

C.	Wo	ooden Joints & Their Uses					
Joint		Uses	Image				
Mitre Joint		 Picture Frames. Joining Moldings Window or Door Frames Trim and Skirtings 	© (1)				
Dowel Joint		 Make joints stronger. Axles on toys. Frames Shelves Table or Chair Leg Attachments 	By K. Cooper 2006				
Mortise and Tenon Joint)	TablesChairsDoorBedsWindowsCabinetsPanelling					
Cross Halving Joint]	Picture framesDrawersCabinetsStructural Framing					

D. Tools & Machinery Steel Rule Tri Square Mitre Square Tenon Saw Mallet Chisel Bandfacer Pillar Drill Mortice



Year 9 PRODUCT DESIGN Rotation Knowledge Organiser

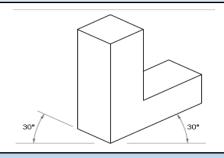


What we are learning this term:

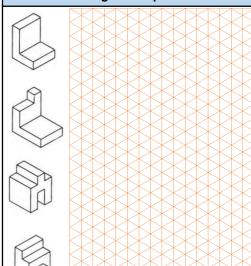
- A. Drawing Skills
- B. Materials
- C. Wooden Joints & Their Uses
- D. Tools & Machinery

A. Drawing Skills _____Technical Drawing

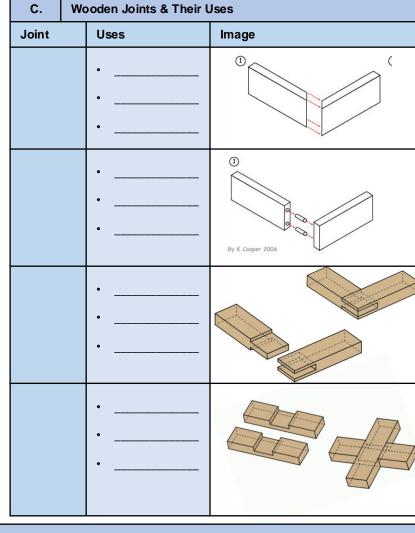
This is used for _____



Practice drawing the shapes below



B.	Materials		
Tim	bers come from		
		Scots pine – which you used for your frame – is a	
		Softwood trees have	
		and are more sustainable	
	are a commor	component in joinery	
		Dowels – which you used in your dowel joint – is a	
		Hardwood trees have	
		and loose their leaves in winter	
Polymers come from			
		Acrylic – which you used for your stand – is a	
		Acrylic is a thermo-	





polymer

which means it can be

What we are learning this term:

- Health, safety and hygiene in the kitchen
- The Eatwell guide and nutrients
- The Dietary requirements of a teen ager
- Skills testing

- Healthy cooking
- Chopping Board Colours

6 Key Words for this term

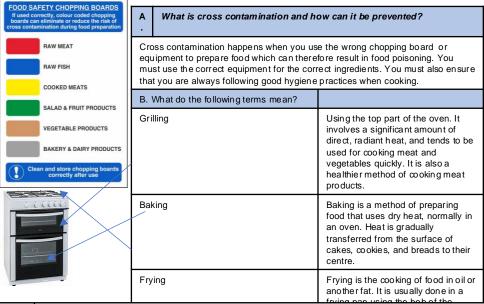
- 4 Healthy 1 Hygiene
- 2 Dietary Requirements 5 Teenager
- 3 Skills Test 6 Cross Contamination

Explain the main four things that you should do when you enter the kitchen area.

Remove all of your jewellery.	Jewellery can harbour bacteria and could fall off into the food.
Tie back your hair	Hair could fall into the food or touch equipment.
Wash yourhands with hot soapy water.	To remove any germs and bacteria from your hands and nails.
Put on and apron and tie it back.	To protect you from the food and equipment and the food from



- 1 A diet high in carbohydrate as a teenager is normally an energetic person.
- 2 A diet with 2-3 potions of protein to maintain muscle growth and cell repair
- 3 A diet with 2 -3 sources of calcium to build developing teeth and bones.
- 4 A diet low in fat to avoid be coming obese or developing other health problems.
- 5 Drinking 2 litres of water a day.



C. Can you list 5 reasons for why we cook food and why it is important?

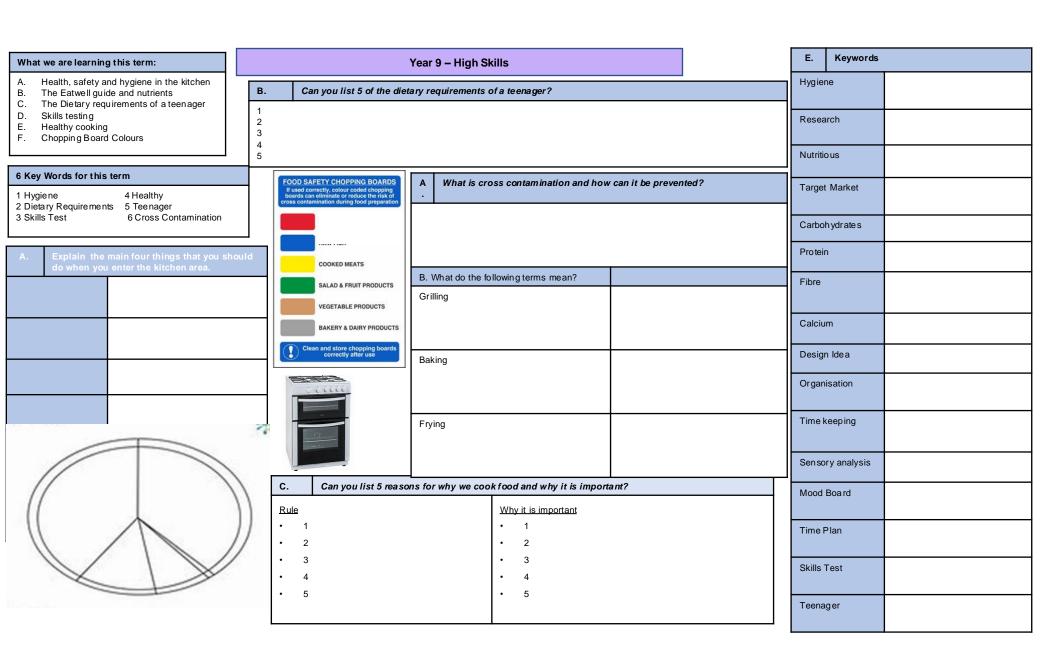
Rule

- 1 to get rid of bacteria on the food
- 2 to make the food taste better
- 3 to make food chewable
- 4 to ensure that food is not raw
- 5 to add colour to the food

Why it is important

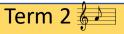
- 1 to stop food poisoning
- 2 to make the food more appealing
- 3 it could be raw or a choking hazard
- 4 to stop food poisoning
- 5 to make it look more appetising or change its use

E.	Keywords		
Hygiene		A method of keeping yourself and equipment clean	
Resea	arch	Information that you find out to help you with a project	
Nutriti	ous	A meal that is healthy and contains vital nutrients.	
Targe	t Market	The age or type of person you re creating a product for.	
Carbo	hydrates	Foods that give you energy	
Protei	n	Food that grow and repair your muscles	
Fibre		Foods that keep your digestive system healthy and avoid constipation.	
Calciu	ım	Foods that make your teeth and bones strong	
Design Idea		A sketch or plan of how you are hoping a project to turn out.	
Organisation		Having everything ready for a lesson and following instructions	
Time I	keeping	Using the time to remain organised.	
Senso	ory analysis	Use your senses to taste and describe a product	
Mood Board		A collage of photos and key words based on a project	
Time Plan		Instructions of wat you are going to do and how long it should take.	
Skills Test		Demonstrating your knowledge of a cooking term.	
Teenager		Someone between the age of 13 – 19.	

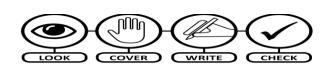




Year 9: You're in the band!



Α	What we are learning about this term
1	Basic Song Structure
2	How to write a perfect Evaluation
3	Playing an instrument / Chords / Melody
4	What are the music symbols – Note values
5	Keywords
6	How to read music - Treble clef and bass clef

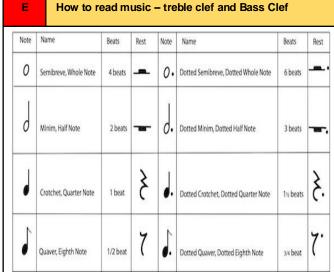


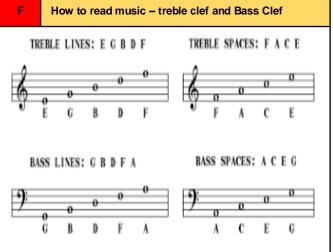
В	Keywords
Instrumental Break	An instrument section during a song – no singing
Lyrics	The words of a song
Verse	A section of a song telling the story , followed by a chorus
Chorus	Repeated idea within a song, lyrics and music usually remain the same
Bridge / Middle 8	Passage of music that contrasts the verse and chorus
Outro / Coda	Passage of music that brings the song to an end
Album	A collection of audio recordings
Arrangement	A rework of a musical composition so that it can be played by different combinations of instruments
Genre	A style or category of art , music, or literature
Cover Song	A performance of a song by someone other tan the original artist/band.

Describing music - MAD T SHIRT

С	Instruments in popular music
	BASIC SONG STRUCTURE The fundamental elements of a pop song
Ve	The chorus is the main hook of the song. Lyrics should broadly summarize the message of the song exporterity to re-emphasize your exporterity to re-emphasize your resease of the song.
	the score and starts 2nd verse elaborates, lends to further emphasize the connection between the 1st and second verses. This bridge is usually very different from both the verses and the choics. It's either the climax of the song or the buildige to the final choics. Chorus Chorus Chorus

D	How to write a perfect Evaluation?
1	Write a full sentence explaining what your musical performance or music composition was about
2	Explain what you were trying to communicate to an audience and how you did it
3	Pick out at least two moments that worked really well, using specific examples and say what you did that made them successful
4	Pick out one moment that you could make better. Explain why it needed improving and how you would make it better if you did your performance again
5	Sum up your evaluation and discuss one thin that you will take forward into your next work



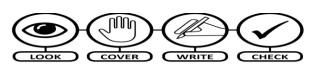


M	Α	D	Т	S	Н	l l	R	Т
Melody	Articulation	Dynamics	Texture	Structure	Harmony/Tonality	Instruments	Rhythm	Tempo
The tune	How notes are played	Loud/quiet and any other volume changes	Layers of sound / how they fit together	The sections and organising	Chords used / the mood	Types of instruments heard	Pattern of notes	The speed

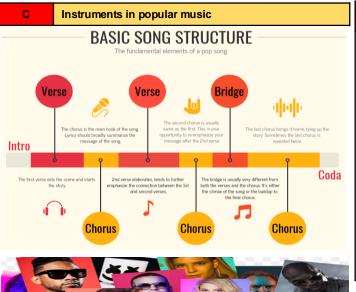


Year 9: You're in the band!

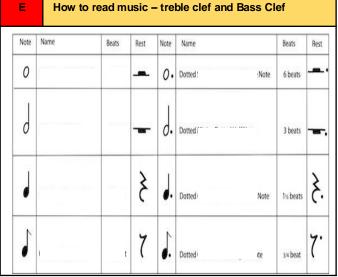
Α	What we are learning about this term
1	
2	
3	
4	
5	
6	

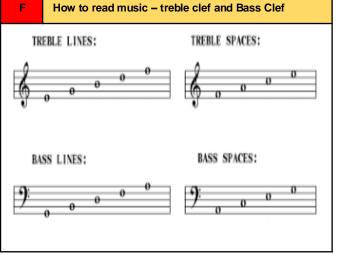


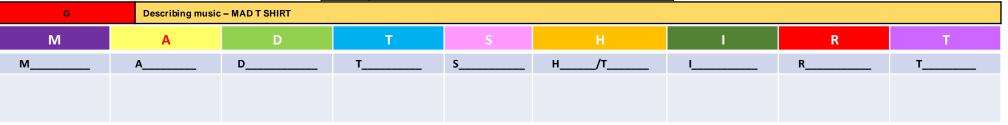
В	Keywords
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Genre	
Cover Song	



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Drama – Year 9 Improvisation

Links to Comp 1 and 2

Improvisation

improvising is inventing and creating content spontaneously. It's a great way to generate new ideas and for creating and developing characters, using a variety of useful techniques.

Spontaneous improvisation which is completely unplanned can generate dialogue or scenarios that you feel work for the piece you are creating. This can then be refined, rehearsed and included in your finished **devised** piece.

A **constraint** is a condition that you must apply to a scene, so that you're improvising within a set of rules. Here are some ideas for working with constraints when improvising.

Space

A very small space, such as a lift. Characters must behave as they would normally but within a tiny playing area.

A vast space, such as across a giant mountain range.

Consider how changing **proximity** affects body language, vocal tone and volume and interaction, between characters. There may be something that works and could be included in your devised piece.



This improvisational exercise is excellent for creating entirely new and unplanned characters and scenarios.

Where, who, what?

Choose a location, eg a supermarket or a roller coaster. Select characters, eg an astronaut or an I.T. manager. Finally, choose a motivation for the character, eg they are looking for a partner or want to be famous at any cost. Each piece of information should be randomly selected, so that they don't necessarily match up. This can make for interesting and very humorous drama.

- Improvisational Theater (improv): is a form of theater where most or all of what is performed is created at the moment it is performed.
- In its purest form, the dialogue, the action, the story and the characters are created collaboratively by the players as the improvisation unfolds.
- Improv exists in performance as a range of styles of improvisational comedy as well as some non-comedic theatrical performances.
- It is sometimes used in film and television, both to develop characters and scripts and occasionally as part of the final product.



<u>Examples – Mock the Week, Whose Line Is it</u> Anyway? Outnumbered. The Office.

Tips for success

-Listen to your partner.

A scene will often 'go stale' if the people involved are not responding genuinely to each other. Improv is all about **teamwork** and the relationship you have with each other. The better the relationship, the better the scene will be to the audience.

-Use 'yes, and...".

When your partner tells you something in an improv scene, accept it and then add something to the conversation. If you're partner starts by asking you why you've come to a party dressed as a pineapple, don't tell them that you think they're seeing things. Ask them why they're the only one who hasn't come dressed as a giant piece of fruit and that you have a spare costume in your car if they need it. Scenes where actors deny what their partners are saying often go dry very quickly and offer nothing for the audience. It's also a good way to annoy your partners.

- Don't necessarily try to be funny.

Sure, comedy is great, but one person trying to make the audience laugh often alienates the others on stage.

-Accept your mistakes.

Like any learning process, you will make mistakes. It's how you learn. Don't beat yourself up if you forgot a key rule of improv or your scene wasn't particularly good. Make some general notes for yourself and put it behind you. Next time you get up to improvise, treat it like a fresh start and be positive.

Drama – Year 9 Improvisation

Links to Comp 1 and 2

Improvisation

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are improvised?

<u>Examples – Can you name any tv shows that</u>

Create your own

Where, who, what? Location-

Character-

Motivation-

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- · It is sometimes used in film and television, both to develop characters and scripts and occasionally as part of the final product.



Tips for success

What are the 5 tips for successful improvisation and why are these important?

SWINDON ACADEMY READING CANON Year 7 Year 9 Year 10 Year 8 The Curious Incident of the Dog in the Night-Time a 置 The Hate U Give The Diary of a Young Girl PEARL The Amazing Maurice The Outsiders The Art of Being Normal Sir Gawain and the Green Knight Witch Child #ReadingisPower