# 100% book - Year 9 Grammar

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



## Term 2

Swindon	<b>Academy 2025-26</b>
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."











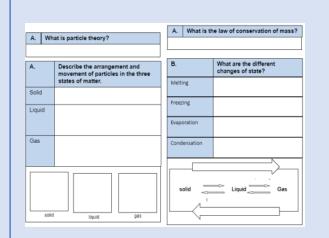
### Using your Knowledge Organiser and Quizzable Knowledge Organiser

### **Knowledge Organisers**

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.

# Quizzable Knowledge Organisers



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!

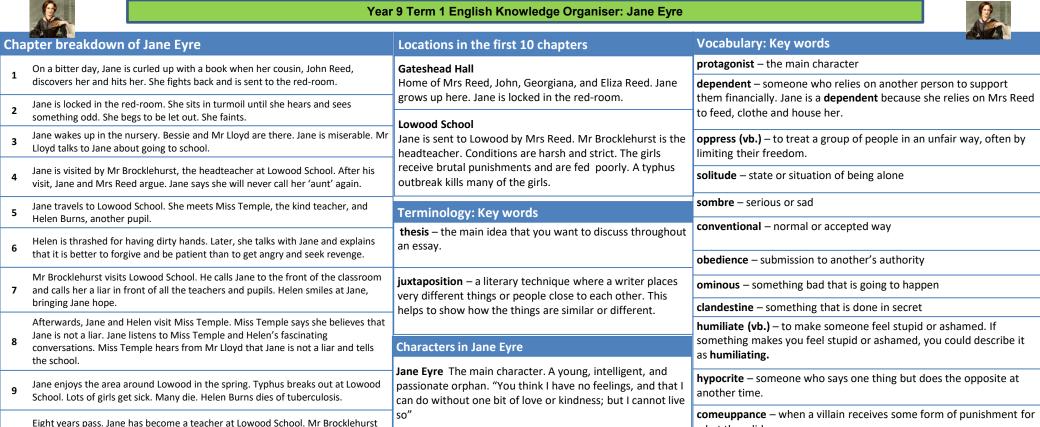
# **Expectations for Prep and for using your Knowledge Organisers**

- 1. Complete all prep work set in your subject prep book.
- 2. 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.
- 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?

Step 1	Step 2	Step 3
Check Epraise and identify what words /definitions/facts you have been asked to learn. Find the Knowledge Organiser you need to use.  Planer    Construction   Construction	Write today's date and the title from your Knowledge Organiser in your Prep Book.  A What is particle theory The theory that all matter is made up of particles.  A Describe the arrangement and movement of particles in the three states of matter.  Solid In a regular patient paticles can violate in a find position.  Liquid Particles are arranged randomly but can slide patient and are arranged randomly but can slide patient and move arround.  Gas Particles are the partient and move arround in a find patient and move arround.  Gas Particles are the partient and are arranged in a find patient and move arround.  Gas Particles are the partient and are arranged in a find patient and move arround.  Gas Particles are the partient and are arranged in a find patient and move arround.  Gas Particles are the partient and are arranged in the patient and arranged in the patient and are arranged in the patient and	Write out the keywords/definitions/facts from your Knowledge Organiser in FULL.  29th May 2020  Properties of the states of matter  Particle theory = all matter is made of particles  Solid = regular patter  particles vibrate in fixed position  Liquid = particles are arranged randomly but are still touching each other and mare ground.  Gas = Particles are for apart and are arranged randomly. Particles carry = 124  of energy
Step 4	Step 5	Step 6
Read the keywords/definitions/facts out loud to yourself again and again and write the keywords/definitions/facts at least 3 times.  Solid = regular pattern	Open your quizzable Knowledge Organiser.  Write the missing words from your quizzable Knowledge organiser in your prep book.  A What is particle theory?  A What is the law of conservation of mass?	Check your answers using your Knowledge Organiser. Repeat Steps 3 to 5 with any questions you got wrong until you are confident.  Particle theory and matter is made of particles  Solid - regular pattern  particles vibrate in fixed position  Liquid - particles fre arranged randoms byt  are still touching each other and  more ground  Gas = Particles are for apart  arranged randoms, Particles carry late of energy

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



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,

her worst fault, a tendency to deceit"

her soul"

despitefully use you."

Jane. vou are clear now."

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

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.

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

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

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 Big Ideas:

what they did.

rational being

**Biographical information** 

school and as a young woman.

Victorian attitudes to childhood

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.

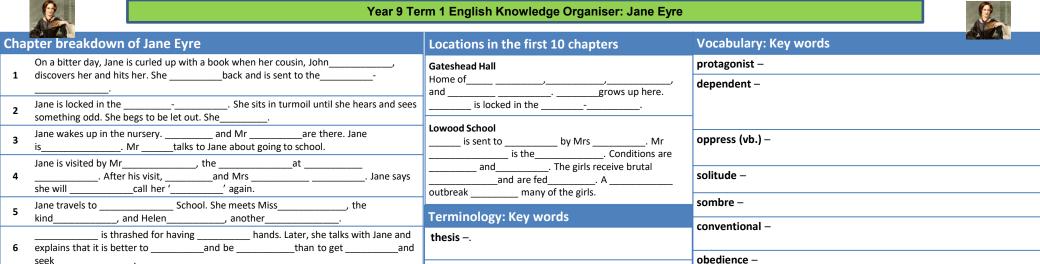
Parts of 'Jane Eyre' were influenced by Brontë's experiences at

'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.



juxtaposition -

Jane Eyre

Characters in Jane Eyre

Mrs Reed - Jane's aunt

Helen Burns - Jane's friend

Miss Temple

Mr Brocklehurst - The governor of Lowood school

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.) -

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 \_\_\_\_\_\_\_ and \_\_\_\_\_\_ 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

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

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.

. 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 \_\_\_\_\_\_ in the \_\_\_\_\_.

\_\_\_\_\_\_breaks out at Lowood School. Lots of girls get\_\_\_\_\_.

Many\_\_\_\_\_. Helen Burns \_\_\_\_\_\_.

\_\_\_\_\_pass. Jane has become a \_\_\_\_\_\_ at \_\_\_\_.

Jane, bringing Jane\_\_\_\_\_.

and tells the

family at Milcote.

religious\_\_\_\_\_.

class women as \_\_\_\_\_

The Big Ideas:





### What we are learning this term:

- A. Animal & plant cells
- B. Eukaryotes & prokaryotes
- C. Cell speicalisation
- D. Cell differentiation
- E. Microscopy
- F. Culturing microorganisms

### 5 Key Words for this term

- 1. Eukaryotic
- 2. Prokaryotic
- 3. Differentiation
- 4. Magnification
- 5. Resolution

## What are the names and functions of animal and plant sub-cellular structures?

Structure	Function	Found in
Nucleus	Controls the cell & contains genetic information	Animal & plant
Cell membrane	Controls movement in & out of the cell	Animal & plant
Cell wall	Supports the cell. Made of cellulose	Plant
Cytoplasm	Jelly-like substance where chemical reactions take place	Animal & plant
Mitochondria	Respiration, to release energy	Animal & plant
Chloroplast	Photosynthesis, to produce glucose	Plant
Vacuole	Filled with cell sap, keeps cell turgid	Plant
Ribosome	Protein synthesis	Animal & plant

В	Compare	eukaryotic a	nd prokaryotic cells	С	How are th	ese cells sp	ecialised?
Feature Eukaryotic Prokaryotic		Cell		Animal or plant	Specialised features		
DN	A	In nucleus	Single loop DNA & plasmids	Sper	m cell	Animal	Tail to swim. Pointed head, containing acrosome. Lots of mitochondria.
Cyt	oplasm	Yes	Yes	Nerv	e cell	Animal	Long. Branched ends (dendrites). Fatty sheath to insulate axon.
Cell		Yes	Yes	Muse	cle cell	Animal	Layers of protein filaments for contraction. Lots of mitochondria.
mei	membrane		Root	t hair cell	Plant	Large surface area. Thin walls.	
Cell	l wall	No	Yes	Xyle	m cells	Plant	Continuous. Thickened & woody.
Size	е	Larger	Smaller	Phlo	em cells	Plant	Companion cells have lots of mitochondria.



### 

### What we are learning this term:

- A. Animal & plant cells
- B. Eukaryotes & prokaryotes
- C. Cell speicalisation
- D. Cell differentiation
- E. Microscopy
- F. Culturing microorganisms

### E Define magnification

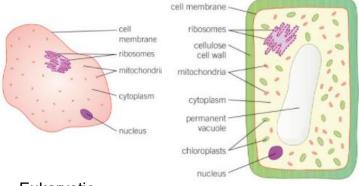
The number of times larger an image is than the original specimen.

### E Define resolution

The minimum distance at which two distinct points of a specimen can still be seen.

What is the formula for magnification?

$$magnification = \frac{size \ of \ image}{real \ size \ of \ image}$$



cytoplasm
genetic material
\*not always present

plasmids

Eukaryotic Animal cell

Eukaryotic Plant cell Prokaryotic Bacterial cell

E	Con	mpare light and electron microscopes				
Feature		Light	Electron			
Radiation u	sed	Light waves (visible light)	Electron beams			
Magnification		Lower magnification (~ 1500 times )	Greater magnification (~ 2 000 000 times)			
Resolution		Larger resolution (200nm)	Smaller resolution (0.2nm)			
Size & cost		Smaller & portable. Cheaper.	Very large & not portable. Very expensive.			

D When does
differentiation occur
for most types of
animal cells?

At early development

D When does
differentiation occur
for most types of
plant cells?

Throughout the lifetime of the plant

In multicellular

D animals, what is cell
division required for?

- Growth or repair
- · To replace cells





### What we are learning this term:

- A. Animal & plant cells
- B. Eukaryotes & prokaryotes
- C. Cell speicalisation
- D. Cell differentiation
- E. Microscopy
- F. Culturing microorganisms

Binary fission

F How often do bacteria replicate?

As often as once every 20 minutes

### F What is the formula for the area of circle?

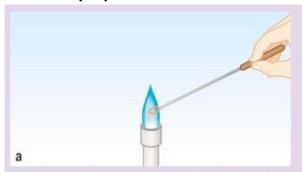
 $A = \pi r^2$ 

F How do you calculate the number of bacteria in a population?

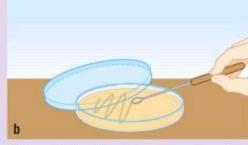
Step 1)  $Total\ time$  = Number of divisions

Step 2)  $2^{Number\ of\ division} = Number\ of\ cells$ 

### How to prepare an uncontaminated culture using aseptic technique:



Sterilise the inoculating loop used to transfer microorganisms to the agar by heating it until it is red hot in the flame of a Bunsen and then letting it cool. Do not put the loop down or blow on it as it cools.



Dip the sterilised loop in a suspension of the bacteria you want to grow and use it to make zigzag streaks across the surface of the agar. Replace the lid on the dish as quickly as possible to avoid contamination.



The Petri dish should be labelled and stored upside down to stop condensation falling onto the agar surface.

	-	(	

Fix the lid of the Petri dish with adhesive tape to prevent microorganisms from the air contaminating the culture – or microbes from the culture escaping. Do not seal all the way around the edge – as oxygen needs to get into the dish to prevent harmful anaerobic bacteria from growing.

## F Explain the reasons for aspects of aseptic technique

(1)	Aseptic technique	Reason
	Sterilise culture media & petri dish before use	Kill existing bacteria on culture media & petri dish, and prevent contamination
	Sterilise inoculating loop with flame	Kill existing bacteria on inoculating loop & prevent contamination
- NEW W.	Tape petri lid & store upside down	Prevents condensation falling from lid onto agar
	In schools, incubate cultures at 25°C	Reduces chance of harmful bacteria growing



### What we are learning this term:

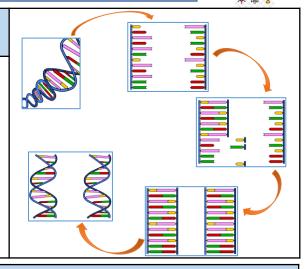
- A. Cell cycle
- B. Mitosis
- C. Growth
- D. Stem cells
- E. Cloning

### 2 Key Words for this term

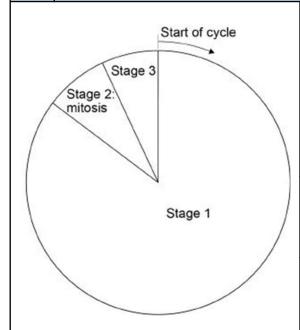
- 1. Mitosis
- 2. Differentiate

## B. What are the stages of DNA replication?

- 1. The DNA molecule unwinds.
- 2. An enzyme moves along separating the two stands.
- 3. New complementary bases bond to the existing bases of one strand.
- 4. New complementary bases bond to the existing bases of the other strand.
- 5. The two complete molecules coil back into a helical shape.



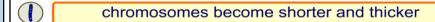
### A. Describe the stages of the cell cycle



1) Replication of DNA to form two copies of each chromosome and synthesis of new sub-cellular structures

- 2) Nucleus divides
- 3) Cell divides in two





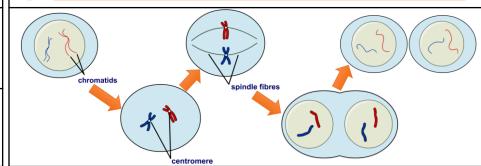
spindle fibres attach to the chromosomes

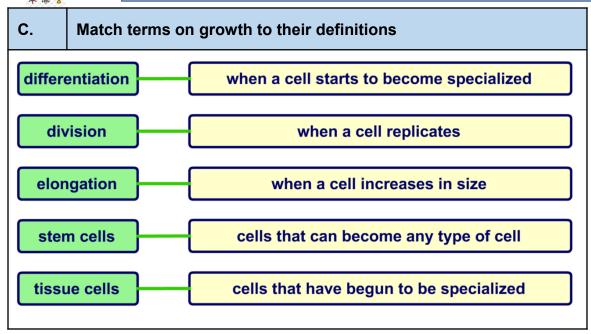
chromosomes align in the centre of the cell

spindle fibres shorten, separating the chromosomes

chromatids move to opposite sides of the cell

the cell divides into two daughter cells





### D. Describe the ethical concern around using embryonic stem cells.

Embryonic stem cell research is strongly criticized by people who believe it is unethical to kill embryos for their cells.

Work involving embryonic stem cells is subject to government regulation.

### D. What are the advantages of using adult stem cells?

- They come from volunteers so they are more ethically acceptable.
- A patient's own stem cells could be used to treat their own disease, avoiding the problem of immune rejection.
- It might be easier to guide their development into specific cell types.
- They are less likely to become cancerous.

## D. Describe these two types of human stem cell

# embryonic of the cells are identical

- Up until the eight cell stage, all of the cells in a human embryo are identical.
- They can develop into all the different types of cell in the body.

## Adult

- They are found in small numbers in many organs, including bone marrow, brain, skin and muscle.
- Can usually only make a small number of cell types.

### D. Describe plant stem cells

## Meristem tissue

 Plant cells can differentiate to form specific cells throughout the plant's life.

### D. Define therapeutic cloning

A process where an embryo is produced that is genetically identical to the patient so the cells can be used in medical treatments.





### What we are learning this term:

- A. Arrangement of the Periodic table
- B. Development of the periodic table
- C. Metals and non metals
- D. Group 1
- Group 7
- Group 0
- G. Transition metals

### 6 Key Words for this term

1. Halogens

2.Intermolecular

### How many elements are metals?

Most elements in the periodic table are metal

#### What are ions?

lons are formed when elements gain or lose electrons

### What are positive ions?

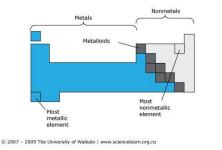
When an element loses an electron it forms a positive ion

### What type of ions do metals form?

Metals react to form positive ions

### Where are metals and non-metals found on the periodic table?

Metals are found to the left, towards the bottom. Non-metals are found towards the top right of the periodic table



### How are the elements in the periodic table arranged?

Elements are arranged in order of increasing atomic number.

### What are Groups?

The vertical columns are groups.

### What similarities do elements in groups have?

- Similar properties
- Same no of electrons on outer shell

### What are periods?

The horizontal rows in a periodic table

#### В. Before the discovery of protons, how did scientists try to arrange elements?

Scientists tried to group elements in order of their atomic weights

### What problems were often found with early periodic tables?

- Not all elements had been discovered
- Some elements placed in the wrong position when atomic weight was used

### Knowledge of isotopes

### What are negative ions?

lons formed when atoms gain electrons

### What type of ions do non-metals form?

Non-metals do not form positive ions - they form negative ions

#### В. How did Mendeleev overcome some of the problems of grouping elements?

Periodic Table of Elements Groups

Ca Sc Ti V Cr Mn Fe Co Ni Cu Zn Ga Ge As Se Br Kr

Rb Sr Y Zr Nb Mo Tc Ru Rh Pd Ag Cd In Sn Sb Te I Xe Cs Ba Lu Ht Ta W Re Os "r Pt Au Hg T1 Pb Bi Po At Rn Fr Ra Lr Rt Db So Bh Hs Mt Ds Ro Cn Nn Fi Mc Lv Ts Og

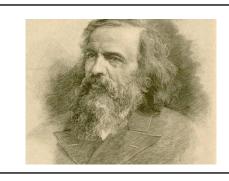
La Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb

Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No

- He left gaps for possible elements that had not been discovered
- He sometimes changed the order based on atomic weights

### What was discovered that helped explain why using atomic weights didn't always work?

Li





### **Year 9 Term Science - Chemistry : Topic = The Periodic Table**



### What we are learning this term: How are the elements in the periodic table arranged? A. Arrangement of the Periodic table Periodic Table of Elements - Groups -B. Development of the periodic table 3 4 5 6 7 C. Metals and non metals D. Group 1 Group 7 What are Groups? F. Group 0 Ca Sc Ti V Cr Mn Fe Co Ni Cu Zn Ga Ge As Se Br Kr | Rb | Sr | Y | Zr | Nb | Mo | Tc | Ru | Rh | Pd | Ag | Cd | In | Sn | Sb | Te | I | Xe | | Cs | Ba | Lu | Hf | Ta | W | Re | Os | Ir | Pt | Au | Hg | Ti | Pb | Bi | Po | At | Rn | | Fr | Ra | Lr | Rf | Db | So | Bh | Hs | Mt | Ds | Ro | Cn | Nh | Fi | Mc | Lv | Ts | Og | 6 Key Words for this term What similarities do elements in groups have? 1. Halogens 2. Intermolecular La Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No What are periods? C. How many elements are metals? What are ions? В. Before the discovery of protons, how did В. How did Mendeleev overcome some of the scientists try to arrange elements? problems of grouping elements? What are positive ions? What problems were often found with early periodic tables? What type of ions do metals form? What was discovered that helped explain why Where are metals and non-metals found on the using atomic weights didn't always work? periodic table? What are negative ions? What type of ions do non-metals form?



A	Ø	*
I	E:MC <sup>2</sup>	5
*	***	8



D Group 1 of the Periodic Table	-	E.	Group 7 of the P
What are group 1 elements known as?	Alkali Metals	Wha	t are group 7 elem
Metal or non-metal	Metal	How	are they found
How many electrons are in the oute shell?	1 electron in the outer shell	Meta	al or non-metal
How reactive are they?	Group 1 metals easily lose the electron on the outer shell.	How shel	many electrons ar l?
	This makes group 1 elements very reactive     Vigorous reactions with water	How	reactive are they?
What ions do they form?	Group 1 elements readily lose		
	electrons to form positive ions     This is so they can have a filled outer shell	Wha	t ions do they forn
How does reactivity change down the group?	Reactivity increases down the group		
			does reactivity ch group

F.	Group 0 of the Periodic Table – Helium, Neon, Argon, Krypton, Xenon, Radon		
What are group 0 elements known as?		The Noble Gases	
Metal or non-metal		Non-metal	
How shel	many electrons are in the outer I?	8 - Filled outer shell (except Helium that has 2)	
How	reactive are they?	Filled outer shell so not very reactive	
	do boiling points change down group?	Boiling point increases down the group as the atomic weight increases	

Ε.	what is a halogen displacement reaction?	
A mo	re reactive halogen can displace a less reactive halogen from an aqueous	
solution from its salt		
Cl <sub>2</sub> +	2KBr → 2KCl + Br <sub>2</sub>	

	E.	E. Group 7 of the Periodic Table			
	What as?	are group 7 elements known	Halogens		
	How are they found  Metal or non-metal  How many electrons are in the outer shell?  How reactive are they?		Halogens travel in pairs – diatomic molecules (Cl <sub>2</sub> , Br <sub>2</sub> )		
			Non-metal		
			7 electrons in the outer shell		
			Group 7 elements easily gain electrons     This makes group 7 elements very reactive		
	What	ions do they form?	<ul> <li>Group 7 elements readily gain electrons to form negative ions.</li> <li>This is so they can have a filled outer shell</li> </ul>		
 	How the g	does reactivity change down roup	Reactivity decreases down the group		
How do boiling points change do the group?		<u> </u>	As you go down the group, the boiling point increases as the atomic weigh increases		

G.	Transition elements			
tran	do the physical properties of sition metals compare to the li metals?	They have higher melting points and densities and are stronger and harder.		
	reactive are they compare to li metals?	Less reactive, the do not react vigorously with oxygen or water		
	at is different about he ions of sition elements?	They can have different charges in compounds.		
What is a general feature of compounds containing transition elements?  What are transition elements used for?		They are coloured		
		Industrial catalysts		



### ear 9 Term Science - Chemistry : Topic = The Periodic Table



D Group 1 of the Periodic Table -	E.	Group 7 of the Periodic Table			
What are group 1 elements known as?		What are group 7 elements known as?			
Metal or non-metal	How	How are they found			
How many electrons are in the outer shell?	Met	Metal or non-metal			
How reactive are they?		How many electrons are in the outer shell?			
	How	reactive are they?			
What ions do they form?					
	Wha	What ions do they form?			
How does reactivity change down					
the group?		How does reactivity change down the group  How do boiling points change down			
F. Group 0 of the Periodic Table – Helium, Neon, Radon	Argon, Krypton, Xenon, How				
What are group 0 elements known as?	the	the group?			
Metal or non-metal	G.	G. Transition elements			
How many electrons are in the outer shell?	tran	How do the physical properties of transition metals compare to the alkali metals?			
How reactive are they?		How reactive are they compare to alkali metals?			
How do boiling points change down the group?		What is different about he ions of transition elements?			
E. What is a Halogen Displacement reaction?	com	What is a general feature of compounds containing transition elements?			
	What for?	t are transition elements used			



### Year 9 Term Science - Chemistry: Topic C1.3 Structure and Bonding



#### What we are learning this term:

- Ionic Bonding
- B. Covalent Bonding
- Metallic Bonding
- States of matter D.
- **Properties**
- Carbon and Nanoparticles

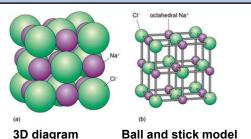
### 6 Key Words for this term

- Delocalised
- Electrostatic
- Ionic
- Covalent

A.	What is an ionic compound?

A giant structure of ions held together by strong electrostatic forces of attractions between oppositely charged ions

#### How can we represent Sodium Chloride?



### What is ionic bonding?

An electrostatic force of attraction between positively and negatively charged ions

When do you get ionic bonding? When metals react with non-metals

#### What are dot and cross diagram?

A way of showing electron transfers during reactions

#### How is an ionic bond formed in Sodium Chloride? Draw a dot and cross diagram to show this

- Sodium loses an electron to form a filled outer shell. A positive ion is formed
- Chlorine gains this electron to fill its outer shell. A negative ion is formed
- An electrostatic force of attraction is formed between these oppositely charged ions



#### What is covalent bonding? A.

Covalent bonding is where atoms share pairs of electrons

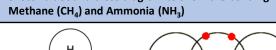
### When do you get Covalent bonding?

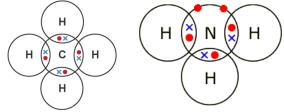
Non metallic elements and compounds

#### What covalent structures are there?

Simple molecules and giant covalent structures

### Sketch a dot and cross diagram to show the bonding in





C.	What is Metallic Bonding?	Draw a sketch of metallic bonding
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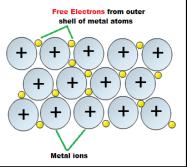
Outer electrons are delocalised and free to move through the whole structure. This gives rise to metallic bonds

#### What does delocalised mean?

Where electrons are shared between 2 or more atoms

### When do you get Metallic bonding?

Metallic elements and alloys



D. What a	are the three states of matter?				
State	Solid	Liquid	Gas		
Diagram					

The amount of energy required to change state is dependent on what?

The strength of the forces between the particles



### Year 9 Term Science - Chemistry : Topic C1.3 Structure and Bonding

Z	Ø	
J	E:MC <sup>2</sup>	5
¢;	200	4

A 562 A									A 762 Z
What we are learning this term:			What is ionic bonding?				When do yo	u get ionic bonding?	
A. Ionic Bonding     B. Covalent Bonding     C. Metallic Bonding     D. States of matter		What	are dot and cross diagram?						
E. Prop	perties								
F. Carl	oon and Nanoparticles	How is	s an ionic bond formed in Sodiu	m Chl	oride? Dr	aw a do	t and cross diag	ram to show this	
6 Key W	ords for this term	1							
<ol> <li>Delocalised</li> <li>Electrostatic</li> <li>Ionic</li> <li>Covalent</li> </ol>									
A. W	hat is an ionic compound?								
How can	we represent Sodium Chloride?								
		A. What is covalent bonding?				Sketch a dot and cross diagram to show the bonding in Methane (CH <sub>4</sub> ) and Ammonia (NH <sub>3</sub> )			
		When	do you get Covalent bonding?						
3D diagram Ball and stick model		What	covalent structures are there?						
C.	What is Metallic Bonding?	Draw a	sketch of metallic bonding	D.	What a	are the	three states of	matter?	
				Stat	te				
What does delocalised mean?				Dia	gram				
When do you get Metallic bonding?									

The amount of energy required to change state is dependent on what?



### Year 9 Term Science - Chemistry : Topic C1.3 Structure and Bonding



D.	D. What are state symbols?				
These are used in chemical equations to show what state of matter things are in a reaction					
Solid (s)					
Liquid		(1)			
Gas		(g)			
Aqueous	(aq)				

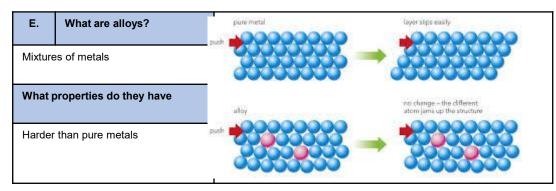
E.	What properties do Giant ionic structures have?		
Melting	points/boiling points	High	
Does it	Does it conduct electricity?		
lonic so	lid	No	
Molten	Yes		
lonic compound in solution Yes			

E.	What are polymers?		
Large	e long chain mo	lecules	н н
Are the coval	he ionic or lent?	Covalent	H H

E.	What properties do simple small covalent molecules have?				
Melti	ng point	Lower melting points – because of weak intermolecular forces (not the covalent bonds)			
Conc	luct ricity?	No – no overall charge			

E.	What properties do giant covalent structures have?					
Melti	ng point	High				
Solubility		Insoluble due to strong covalent bonds				

F. What different forms of carbon are there?								
	Graphite	Diamond	Graphene	Fullerenes				
Structure	Hexagonal rings	Giant covalent	1 sheet of graphite	Giant covalent				
Melting point	high	Very high	Very High	Very High				
Conducts electricity?	Yes	No	Yes	No				
Properties	soft	Very hard	hard	hard				
Uses	Pencils, electrodes	Cutters, jewellery	Electronics, composites	Nanotechnology, electronics, medicine				
Diagram								





Structures that are 1-100nm in size

### Why are they useful?

Large surface area to volume ratio

### What uses?

Medicine, electronics, sun cream, catalysts, cosmetics



### Year 9 Term Science - Chemistry : Topic C1.3 Structure and Bonding



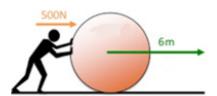
D.	•			E.	What properties do	o Giant ion	ic structures	E. What are polymers?					
These are used in chemical equations to show what state of matter things are in a reaction  Me			Melting points/boiling points										
Solid			Does it	conduct electricity?									
Liquid				lonic so	olid				Are t	he ionic o	r		
Gas				Molten	ionic soild				coval	covalent?			
Aqueo	ous (in solution)			lonic co	ompound in solution								
E.	What propertie	es do simple sn	nall covalent	F.	What different	t forms of	carbon are t	here?					
B.B. 141	molecules hav	e?				Graphite	e	Dian	nond		Grap	hene	Fullerenes
Meitii	ng point			St	ructure								
				M	elting point								
Cond	uct			Conducts electricity?									
electi	icity?			Properties									
E. What properties do giant covalent structures have?		Uses											
Melting point		Di	Diagram			•			#				
Soluk	oility					3000			N		83	48484B	
E.	What are alloys	5?						F.	Wha	at are nan	opartio	cles?	
What properties do they have				Why are they useful?									
TTTTAL	proportion do trio												
								What	t uses?				

#### Power and work done

### Work done = energy transferred

Energy transferred mechanically is calculated:

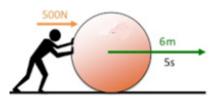
Work done = force x distance W (J) = F (N) x s (m)



Work done = 500N x 6m = 3000 J

Power = energy transferred per second 1 Watt = 1 Joule per second

> Power = energy transferred ÷ time P (W) = e (J) ÷ t (s)



Power = Energy ÷ time = 3000 J ÷ 5 s = 600W

A more powerful appliance transfers more energy per second, eg:



#### Reducing unwanted energy transfers

Reducing wasted energy means lower costs

Materials that conduct heat well have a high **thermal conductivity**.



### Reducing energy transfers in homes

- Double glazing
- · Thick walls
- Walls made of materials with low thermal conductivity
- · Insulation wall and loft

### Reducing energy transfers in appliances:

Lubrication – reduces friction



· Streamlining - reduces air resistance



#### **Energy resources**

We use energy resources for electricity generation, transport and heating

**Non-renewable** – ones that are being used faster than they can be replaced and will run out.

Example	+	-
Coal, oil, natural gas	Reliable method of generating electricity	Release CO <sub>2</sub> which contributes to global warming
nuclear	No CO <sub>2</sub> released	Produces radioactive nuclear waste

#### Renewable resources:

Ones that will not run out, they are being replenished as they are used

Example	+	-
Solar	No CO <sub>2</sub> released	Don't work at night or well on cloudy days
wind	No CO₂ released	Doesn't work if it isn't windy
Hydro	No CO₂ released	Damage to habitats
Geothermal	No CO <sub>2</sub> released	Only found in specific places
waves	No CO <sub>2</sub> released	Damage to habitats
Biofuel	Carbon neutral	Uses crop land to grow new forests

### Year 9 Term Science/Physics: Topic P1 Energy

- 1. What are the units for work done?
- 2. What are the units for force?
- 3. What is the equation to calculate work done during mechanical work?
- 4. What is the equation to calculate power?
- 5. What is the unit for power?
- 6. What is the unit for time in the power equation?
- 7. What is 1 Watt equivalent to?
- 8. How would you recognise a more powerful lightbulb?
- 9. What is meant by a more powerful appliance?

- 1. Why is reducing unwanted energy transfers from the home important?
- 2. What is meant by 'high thermal conductivity'?



- 3. Where is most of the heat lost through in a house?
- Give two ways to reduce the heat lost though the walls of a house.
- 5. What does lubrication reduce?



- Give the three main uses for energy resources
- 2. What is a non-renewable energy resource?
- Give 2 examples of non-renewable energy resources
- 4. Give two disadvantages of using coal and oil
- Give one advantage to using nuclear resources to generate electricity.
- 6. What is a renewable energy resource?
- 7. Give 4 examples of renewable resources
- 8. Give 2 advantages of using renewable resources to generate electricity
- 9. Give two disadvantages of using renewable resources to generate electricity

### P2 – Electricity

### Current, resistance and potential difference

Electrical current is the flow of electrical charge.

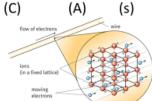
Current is measured in amps (A), charge is measured in Coulombs (C).

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



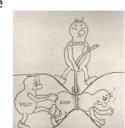
**Ohms Law** 

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 ( $\Omega$ )

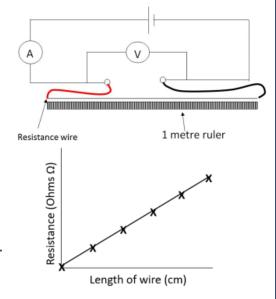


### Hypothesis 'the length of the wire affects resistance'

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)

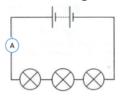


### The relationship is directly proportional

### Series and parallel circuits

#### Series circuits:

A series circuit is one single loop

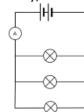


In a series circuit:

- 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

### P2 - Electricity

### 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'

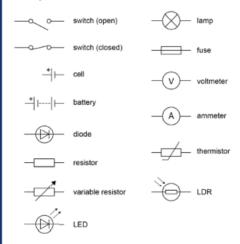
- 1. What is the independent variable in this investigation?
- 2. What is the dependent variable?
- 3. What is the minimum number of readings needed for a line graph?
- 4. What two readings are taken?
- 5. How is resistance calculated?
- 6. What sort of relationship is seen?
- 7. Why is it important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

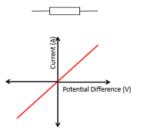
### P2 – Electricity

### Components



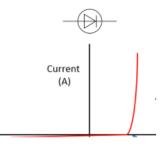
- A diode only allows current to flow one way in a circuit
- A resistor is a component that provides a fixed resistance in the circuit – e.g a 5 Ω resistor
- A variable resistor is a component whose resistance can be changed (e.g a dimmer switch)
- A thermistor is a resistor whose resistance changes 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

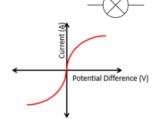


### A fixed (ohmic) resistor

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.

### P2 – Electricity

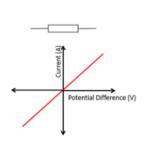
### Components

Symbol	Name
	Cell
-1/-	
	fuse
_A_	
	Voltmeter

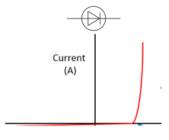
- 1. Complete the table opposite
- 2. Which component has a resistance that decreases as light intensity increases?
- 3. Which component only allows current to flow one way?
- 4. What is a fixed resistor?

### Current, potential difference and resistance for different components

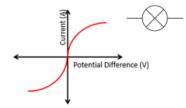
1. What readings would you need to take from a circuit to calculate resistance?



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

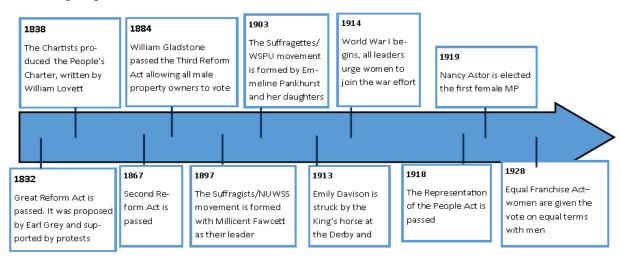
### Climate Change

Back	ground:			C. Natu	ral clima	ate change (3)	D.	Human-in	duced	climate change (5)
1. 2. 3.	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		Volcanic eruptions	eruptions block sunlight, making it colder  Sun The sun can give out more end		Greenho	use 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.		
4.	global climate From this evi	te before we started recording it. (B) idence we can see that the planet has always h periods of warming and cooling. (A)		Spots  Orbital change	The or	rbit of the sun changes from ellipse) to circular approx.	Greenho	use gases		s like carbon dioxide and methane that eat around the Earth, leading to climate ge.
5.	atmosphere f	rom bur	ncrease of carbon dioxide in the rning fossil fuels, is causing the	E. Effec	98,000 ets on p	0 yrs. eople (6)	Transpo	t		cars, so more CO <sub>2</sub> causing the enhanced house effect.
6.		ed green	se effect. <i>(D)</i> house effect is causing changes to the nelting of Artic sea ice, rising	Tropical st	orms	Increase in frequency and intensity so more damage.	Farming			ing livestock produces methane, this is a house gas.
7.	temperatures such as tropic	s, and ar cal storn	n increase in extreme weather events	Sea-level r	ise	Increased risk of floods, damaging property and businesses.	Energy			energy required, meaning more fossil burnt, so more CO <sub>2</sub> .
	limiting the ar	mount o	f carbon dioxide released into the nown as mitigation. <i>(G, H)</i>	Melting Ard	ctic ice	Affects trading routes in the Arctic Circle.	F. Effects on the environment (4)			
8.			More droughts/ Crop failure, could lead to starvation and famine.		Sea temperature rise		Coral bleaching and destruction of marine ecosystems.			
	(6, 11)			spend n disaster		Governments have to spend more money on disasters instead of developing.	More droughts			Migration/ death of species which can not survive drought conditions.
Α.	Changes in c	limate (3	,	Environmental Refugees		Pressure on countries to accept refugees.	Melting glaciers (ice rivers)			Will send more fresh water into the sea, causing the sea level to rise.
	te change		The process of the Earth's climate changing over time.	G. Stra (4)	tegies t	o resolve climate change			Loss of habitats for animals, such as polar bears.	
	al periods glacial periods		Cold periods.  Warm periods.	Adaptation		Adapting to climate change to make life easier.	H.	Place spe	cific ex	xamples (2)
B.	Measuring cl	limate cl	hange (3)	Adaptation		Building flood defences.	Adaption	l	The	e Thames Barrier.
Ice co	the new climat CO <sub>2</sub> can be measured in each layer, and therefore the		2. Growing new crops to suit he new climate. B. Irrigation channels, sending water from areas of surplus to deficit.			sitive: Stops flooding due to rising sea els.				
Tree r	Tree rings Each ring represents a different year. Thicker rings sha warmer climate.			fi		Trying to stop climate change from happening by reducing greenhouse gases.	Mitigation		The Paris Agreement.  Positive: Countries are trying to lower CO <sub>2</sub> emissions.	
Histor evider			diaries e.g. paintings of ice fairs on the is 500 years ago.	Mitigation examples	(3) 2	International agreements.     Alternative energies.     Carbon capture.				gative: The USA pulled out and China did sign up.

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

#### Unit 2: The Suffragettes

#### Knowledge Organiser



Keywords	
Act a written law passed by Parliament	Propaganda information used to promote a political point
	that can be misleading or untrue
Ballot a system of voting on a particular issue	<b>Reform</b> make changes in order to improve something
Charter a written statement of the rights of a specified	Representation Speaking or acting on behalf of someone
group of people	
<b>Democracy</b> system of government by the whole population	Rotten boroughs a borough that was able to elect an MP
typically through elected representatives.	despite having very few voters, the choice of MP typically
	being in the hands of one person or family.
<b>Enfranchisement</b> 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 political aims written down	Suffrage the right to vote
Parliament a group of people who make the laws for their	Tactics An action or strategy carefully planned to achieve a
country	specific end
Petition a formal written request, typically one signed by	
many people, appealing to authority in respect of a particu-	
lar cause	

Key concept: Causation						
Longterm	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 Trig- ger	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 WW 1 and changing role of women.					

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 Pank- hurst	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 arrested many time, she went on hunger strike and was force-fed. Mother of Christabel.

#### How do Luse my knowledge organiser?

Have you learnt the key dates of this unit?

Can you put the dates into chronological order

Have you mastered the keywords?

Can you spell them?

Can you define them?

Have you understood the key concept?

Unit 2: The Suffragettes	Ke	y concept: Causation		
Knowledge Organiser	Lon	Long term		
	Sho	rt term		
	Spa	rk or Trigger		
		<u> </u>		
		Key people		
Keywords		Nancy Astor		
Reywords		Emily Davison		
Act	Propaganda			
		Benjamin Disraeli		
Ballot	Reform			
		Millicent Fawcett		
a written statement of the rights of a specified	Representation	William Gladstone		
group of people				
Domocratic	a haraugh that was able to also			
Democracy	a borough that was able to elect an MP despite having very few voters, the choice of MP	Earl Grey		
	typically being in the hands of one person or family.			
Enfranchisement	Strike	Annie Kenney		
Manifesto	Suffrage	William Lovett		
- Maintesto	Junuge			
		Christabel Pankhurst		
a group of people who make the laws for	Tactics			
their country				
Petition		Emmeline Pankhurst		

### <u>Y9 RE</u>

1	Morality	Principles concerning the distinction between right and wrong or good and bad behaviour.	11	Relative	Depending on the situation or the context, opposite of relative.
2	Ethics	Moral principles that govern a person's behaviour or the conducting of an activity.	12	Agape	Unconditional love, "the highest form of love, charity" and "the love of God for man and of man for God".
3	Sanctity of Life	The view that all life is sacred because it is made by God.	13	Abortion	A procedure to end a pregnancy.
4	Quality of Life	The standard of health, comfort, and happiness experienced by an individual or group.	14	Pro-Life	Against abortion and euthanasia.
5	Rules	Regulations or principles governing behaviour.	15	Pro-Choice	Supporting the legal right of a woman to choose whether or not she will have an abortion.
6	Natural Moral Law	A system of laws based on close observation of human nature, given to humans by God and proposed by Aquinas.	16	Euthanasia	The painless killing of a patient suffering from an incurable and painful disease or in an irreversible coma.
7	Precept	A rule made to regulate behaviour or thought.	17	Capital Punishment	The legally authorized killing of someone as punishment for a crime, death penalty.
8	Reason	The power of the mind to think, understand, and form judgements logically.	18	Animal Rights	the rights of animals to live free from human exploitation and abuse.
9	Absolute	A rule or principle which is seen as universally valid and should be applied all the time, no matter what.	19	Dominion	To be in charge of something or rule over it.
10	Situation Ethics	The view that there should be flexibility in the application of moral laws according to circumstances.	20	Stewardship	The job of supervising or taking care of something.



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



#### What we are learning this term:

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

#### 6 Key Words for this term

- Almuerzo
- 2. Ceno
- 3. Desavuno
- 4. Peligroso
- 5. evitar 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

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

### B. 3.2G Comer y beber

el agua (mineral) (mineral) water to drink beber el bocadillo sandwich la carne meat la cena evening meal cenar to eat evening meal comer to eat la comida lunch, food, meal desavunar to have breakfast breakfast el desayuno 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

#### C. 3.3G ¿Haces deporte?

alass

active

activo/a al aire libre

el vaso

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 ridina 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	Tener To have	Present	<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	

### D. 3.2HUna cena especial

la aceituna olive la basura rubbish, junk el bocadillo Sandwich el/la camarero/a waiter to leave, to let. deiar escoger to choose los espaguetis Spaghetti el/la esposo/a husband, wife el gusto taste la lata tin, can las legumbres Pulses (lentils) optar por to opt for

### E. 3.3F ¿Qué deportes harás?

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

#### F. Key Words across Topics?

to have = tener to be = ser = ir to go 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

Aburrido – boring Util - useful Inutil - useless Comodo - comfy Interestanteinteresting Entretenido entertaining Emocionante excitina Guay - cool Genial – great Soso - dull Asqueroso disgusting Malo- bad Bueno - good Arriesgado- risky Educativoeducational Estimulatestimulating Peligroso-

dangerous

Divertido – fun





G. Translation Practice	
For lunch, and for breakfast I	реа, уре
drink tea	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	pqeemsq
than ice cream	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	vacur
present	
We are going to celebrate my	vacecd
grandma's birthday	m a
I am going to prepare a	vapupcs
healthy hot dog	
Often they play basketball in	amjabel
the free time	† l
Usually we listen to music	amemtl
every day	d
I hope to visit my grandma's	evlcdma
house	
I'm going to cook chicken and	vacpcpf
chips	
I have to cook every day	tqctld
I'm thinking of watching TV	pvlthplt
tonight	
For breakfast, I drink milk	ped, blyc
and eat a sandwich	u b
For desert, they eat cake	рер,ср
For breakfast, I take salad	ped, tey
and chicken	þ
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 carne 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				
	¿Tomas demasiadas bebidas azucaradas? Do you drink too many fizzy drinks?	Si, tomo demasiadas bebidas azucaradas porque son deliciosas y muy dulces/me dan energía/todos mis amigos las beben, pero lo sé que son muy malas para la salud/para mi cuerpo.				
	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 smells bad. Also, it causes cancer and is really dangerous				
	¿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 and from time to time I play rugby. I don't like to dance because it's boring and I love to play computer games because they are exciting				
l						

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			

Marie VARIATIVE CONTRACTOR

### What we are learning this term:

- A. Ines Kouidis
- B. Michael Volpicelli

it will become.

inspiration.

Who does she make collages of?

C. Techniques and skills

A.	How has lines Kouldis created this image?
1	What materials has she used? Ines uses a range of scrap materials including envelopes, scrap paper, newspapers, old magazines and cardboard.
3	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.
4	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

She usually makes collages of famous people in history, who

and have had an impact on Ines' live. They are her main

might be dead or alive today. These people influence her making

	E ALL MAIN THE LAND STATE OF	- 6
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.
- 6. Add additional details on the face and in the background, following the same technique as step 2 and 3.

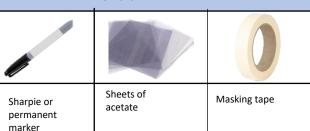
### What each tool is used for:

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.



### 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.



	COLLA MATTER STATE OF THE PROPERTY OF THE PROP
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

## What we are learning this term: A. 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

K	40	PRIT AMAGE	STATE OF THE PARTY	CALL BOOK STORY	A (1997)			DUE		
ļ	С		nake a collage.		В.	Ans and	wer the follow	wing question s.	ns about Micha	aels work
	Steps		g your collage:		body	part of does N in drav	1ichael			
	2.					effect ( words	do the make?			
	3.				How v descri	vould y be his	vou work?			
	4.			į.	about	o mak	ificant ords he e up the			
3	5.				<b>W</b>	10	10			
2	_	t each tool i	is used for:		船	V	经		22E/C	
3	_	stick			1);	K	The state of		19 AX 00	
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)		Looking a Vollpicell	at the image drawn by i, how does he create.	Michael	17	S.	1		of A s	
VALL		arker areas?			M				100	
- 11					VO	W.	About the v	work of artist	Michael Volpid	celli
4	C. Nan	ne the follow	ing equipment.		8		About the v	voik of artist	wiichaer voipi	Jeili Jeili
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WHY?

### YEAR 9 GRAPHIC COMMUNICATION

### What are we learning this term?

Logos Typography

C Computer skills

D Key words

Evaluation

### 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

### 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

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

### 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 wo	e learning thi	s term?			D  Key words	
A Logos	B Typography	C Computer skills	D Key words	E Evaluation	Merchandise	
A   Logos					Combined Logo	
What is <b>a logo?</b>					Photoshop	
How does Alex Troc	:hut design logos?				Photo Editing	
D   T b		C I C-			E   Evaluation	
B   Typography		C   Coi	mputer skills			ge or give an opinion
Please use pencil fo	r the drawing of your o	What i	s the shortcut fo s the shortcut fo does this symbol does this symbol	r paste? stand for?	following three the following three the following three the following three three following three three three following three three three following three three three following three three following three three three following three followin	



### Year 9 PRODUCT DESIGN Rotation Knowledge Organiser



#### What we are learning this term: A. Workshop Tools C. Key concepts D. Key Words E. Types of Cams **B.** Materials **Workshop Tools** Steel Rule **Tri-Square Laser Cutter** Mitre square **Tenon Saw** Pillar Drill **Bandfacer**

	D.	Key Word	Key Words				
	Prototype P		An early model or sample of a product used to test a concept				
	Tolerance +		The margin of error allowed for a dimension without negatively impacting a product				
	Depth stop		A part on a tool which is used to help cut or drill a specific depth.				
			Creating a product by bringing several components together.				
_		1_					

## **Materials**

#### Timbers come from trees



Scots pine - which you used for your box walls - is a softwood

Softwoods come in planks and boards

### Manufactured Boards come from wood pulp



Plywood - which you used as your base and Lid- is a manufactured board

**Manufactured Boards** come in sheets

#### Polymers come from crude oil



Acrylic - which you used as your lid decoration for your trinket box – is a polymer

Polymers come in sheets, graduals and filament

### **Key concepts**

Designers research and investigate resources and materials to help inspire ideas.

Computer-aided design (CAD) is the process of using computer software to create 2D or 3D designs.

Advantages	Disadvantages
Designs can be <b>created</b> , <b>saved</b> and <b>edited</b> quickly, saving time	CAD takes a <b>long time</b> to <b>learn</b>
Designs or parts of design can be easily viewed from different angles, copied or repeated	Software can be very expensive
CAD is very accurate	CAD files can become corrupted or lost

Hazards - these are something that could potentially harm you. There are many such as:

- Bags and chairs acting as a trip hazard
- Untucked shirts, baggy clothes and untied hair are common things to get caught on tools and machines.
- Drinks and liquids, if spilled can become slip hazards

Preventative measures – rules put in place to minimize the likelihood of a hazard occurring.

- No food and drink in workshops
- Bags and chairs stored neatly in designated areas
- Long hair must be tied up and correct uniform worn.

### Personal protective equipment (PPE)

The three used most often are aprons, safety goggles and ear defenders

### Types of Cams

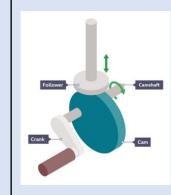
#### Cam mechanism

A cam mechanism has two main parts:

- A cam attached to a crankshaft which rotates
- A Follower touches the cam and follows the shape, moving up and down

#### Cam shapes are important for the movement of the follower.

- Off set circular gradually moves the follower up and down
- Pear shaped keeps the follower at the same height for half a rotation before quickly moving it up and down.
- Snail Cam allows the follower to rise before abruptly dropping, this cam can only rotate one way
- 4-lobed rises and drops the follower 4 times per rotation and can only go one way





**Snail Cam** 



Pear shaped Cam





4-lobed Cam





### Year 9 PRODUCT DESIGN Rotation Knowledge Organiser



	Ø-//							
Wha	t we are learning this terr	n:			D.	Key W	ords	
Α.	Workshop Tools B. N	laterials C. Key concepts	D. Key Words	E. Evaluating Work	Prototy	pe F	Ā	
A.	Workshop Tools			*	Toleran	ice +		
					Depth s	<b>₹</b> ~	<u> </u>	
					Assemi	ble 🐔		
В.	Materials		C. Key concep	ts	E.	Types	s of Cams	
Tim	nbers come from	Scots pine – which you used for your box walls – is	Designers research a		Cam mechai	nism	A cam mechanism has t	
		a softwood  Softwoods come in	Advantages	Disadvantages	• Off			Į,
Mai	nufactured Boards come	Plywood – which you used as your base and Lid– is a manufactured board  Manufactured Boards come in	Hazards – these are so harm you. There are m	omething that could potentially any such as:		il Cam -		Follower Camshutt
Pol	ymers come from							
		Acrylic – which you used as your lid decoration for your trinket box – is a polymer	Preventative measure the likelihood of a haza	es – rules put in place to minimize rd occurring.				
		Polymers come in	Personal protective e The three used most of	quipment (PPE) ften are	-			

#### What we are learning this term:

- A. Health, safety and hygiene in the kitchen
- B. The Eatwell guide and nutrients
- C. The Dietary requirements of a teenager
- Skills testing

and tie it back.

- E. Healthy cooking
- F. Chopping Board Colours

### . Can you list 5 of the dietary requirements of a teen

- 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

Year 9 - High Skills

- 3 A diet with 2 -3 sources of calcium to build developing teeth and bones.
- 4 A diet low in fat to avoid becoming obese or developing other health problems.
- 5 Drinking 2 litres of water a day.

FOOD SAFETY CHOPPING BOARDS

RAW MEAT

RAW FISH
COOKED MEATS

SALAD & FRUIT PRODUCTS

VEGETABLE PRODUCTS

BAKERY & DAIRY PRODUCTS

### 6 Key Words for this term

- 1 Hygiene2 Dietary Requirements5 Teenager
- 3 Skills Test 6 Cross Contamination

## A. 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 your hands with hot soapy water.	To remove any germs and bacteria from your hands and nails.
Put on and apron	To protect you from the food

and equipment and the food

from touching you.



### A What is cross contamination and how can it be prevented?

Cross contamination happens when you use the wrong chopping board or equipment to prepare food which can therefore result in food poisoning. You must use the correct equipment for the correct ingredients. You must also ensure that you are always following good hygiene practices when cooking.

B. What do the following terms mean?	
Grilling	Using the top part of the oven. It involves a significant amount of direct, radiant heat, and tends to be used for cooking meat and vegetables quickly. It is also a healthier method of cooking meat products.
Baking	Baking is a method of

preparing food that uses dry
heat, normally in an oven. Heat
is gradually transferred from
the surface of cakes, cookies,
and breads to their centre.

Frying Frying is the cooking of food in

oil or another fat. It is usually done in a frying pan using the hob of the cooker. It also known to be unhealthy.

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

### Rule

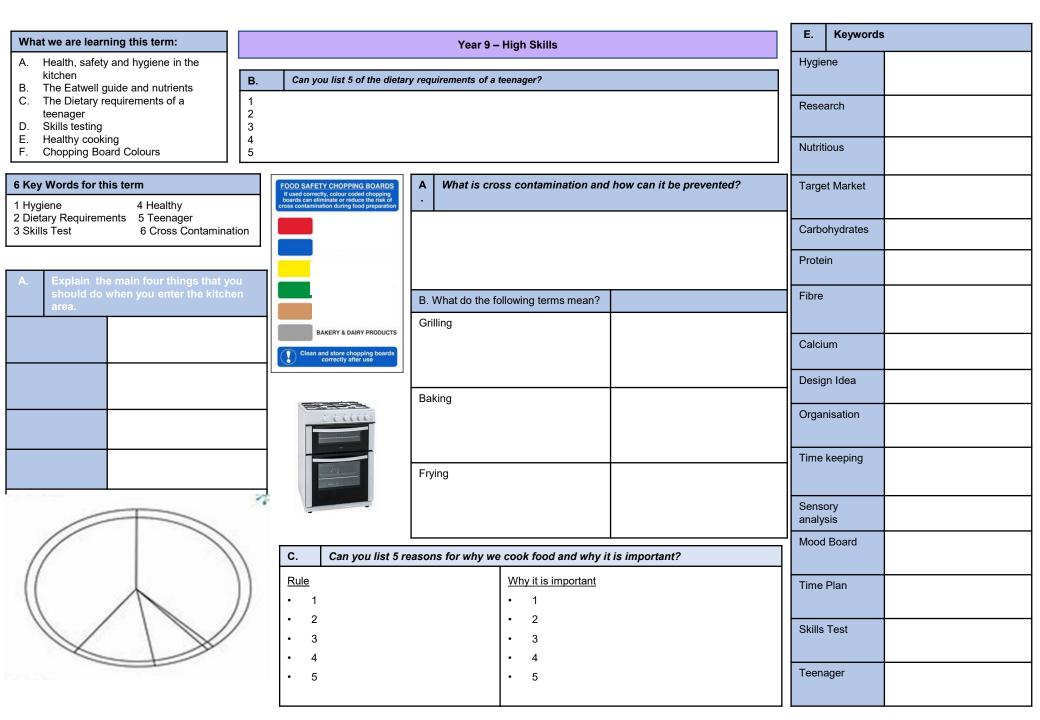
C.

- 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.	E. Keywords		
Hygiene		A method of keeping yourself and equipment clean	
Rese	arch	Information that you find out to help you with a project	
Nutrit	ious	A meal that is healthy and contains vital nutrients.	
Targe	et Market	The age or type of person you re creating a product for.	
Carbo	ohydrates	Foods that give you energy	
Prote	in	Food that grow and repair your muscles	
Fibre		Foods that keep your digestive system healthy and avoid constipation.	
Calci	ım	Foods that make your teeth and bones strong	
Desig	n Idea	A sketch or plan of how you are hoping a project to turn out.	
Orgar	nisation	Having everything ready for a lesson and following instructions	
Time	keeping	Using the time to remain organised.	
Sensory 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.	
Teena	ager	Someone between the age of 13 – 19.	





### 9-1, 9GS, 9-4, 9-6 Only

### Year 9: How do we make an EDM banger!?

### Term 2



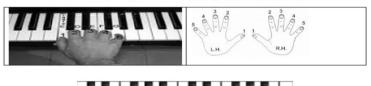
#### What we are learning this term:

- A. Learn about EDM music and how it's made
- B. Compose your own EDM piece of music in Soundtrap
- C. Analysis of EDM music to understand its structure, instruments and features

F	Keywords
Piano Roll	The space where you can add notes to a MIDI instrument
Velocity	How loud or quiet a note is played in a DAW e.g. High velocity = Louder notes.
EDM	Electronic Dance Music is a genre of music that uses synthesised sounds, drum machines and vocals.
MIDI	Instruments that are played in a DAW (soundtrap) are MIDI isntruments. This means <i>Musical instrument Digital Input</i>
DAW	Digital Audio Workstation is a program used to create music (Soundtrap)
4 to the floor	A rhythm that is primarly used in EDM music, where there is a kick drum on every beat.
Sampling	When a sound or part of a song is taken and changed so it can be used in another song, for example, sampling vocals.
Automation	A tool in DAWs where you can change the volume/effect automatically. For example a guitar could fade in and out.
Quantize	A tool in DAWs that can make notes in time.
Build up	The part of an EDM piece where the music builds up to another section.
Drop	The part of an EDM song where the main beat comes in. This usually comes after the build up
Bass Line	The lowest sequence of notes in a piece of music. Usually played with a bass instrument i.e 808

### C Playing the Keyboard

Remember to use your right hand when playing notes in the treble clef



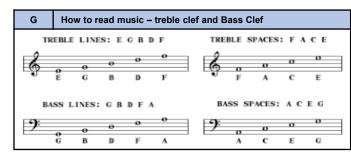


Riff	A catchy phrase in a piece of music, shorter than the melody.
Phrase	A small section of music, this can be repeated throughout a piece of music.
Hook	A catch phrase in a piece of music, usually sung.
Syncopation	A musical technique where the weak beats are emphasised / off beat rhythms
Structure	How a song is put together, like a blueprint.
Loop	A repeating section of sound, this can be a melody or a drum beat
Remix	A retelling of a piece of music where elements of the original song are combined with new elements

#### C Chord Progressions Ideas

## Here are some popular chord progressions you can use for your EDM piece!

VI	IV	V	I
VI	V	T	IV
VI	IV	ı	V
ı	V	VI	IV



### **EDM** song structure

Intro Build-up Pre Hook Hook Bridge Pre Hook Hook Outro

The EDM or "Banger" structure follows a structure of builds and drops. Rather than using standard verses, this structure instead has (usually) to main builds where tension increases over time before being released in the hooks. What's key here is the use of rhythm to create tension and build energy between the hooks.

Here is a useful video to help you get started:







#### What we are learning this term:

- A. Learn about EDM music and how it's made
- B. Compose your own EDM piece of music in Soundtrap
- C. Analysis of EDM music



C Playing the Keyboard

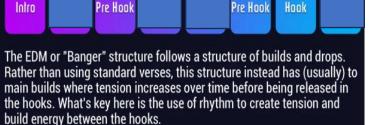
Remember to use your right hand when playing notes in the treble clef





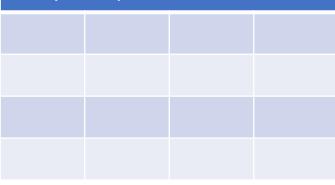
KIII	
Phrase	
Hook	
Structure	
Loop	
Remix	

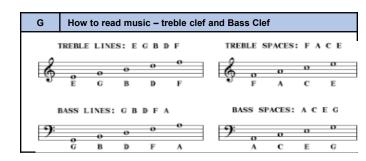
### **EDM** song structure



C Chord Progressions

Here are some popular chord progressions you can use for your EDM piece!





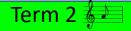
Here is a useful video to help you get started:





9-3, 9-5, 9-2 only

Year 9: What Makes a Good Song?



Α	What we are learning about this term
1 2	Popular song structure Lyrics , hooks and riffs in popular music
3	Melody – conjunct and disjunct
4	Range, instruments and lead sheets in pop music



В	Keywords
Lyrics	The words of a song – split into <b>verses and choruses</b>
Hook	the 'catchy bit' of the song that you will remember. It is short and repeated in different places throughout the song.
Riff (Ostinato)	<b>Short, repeated musical pattern</b> often used in the introduction and instrumental breaks in a song.
Melody	The tune – usually <b>lead singer</b> has this
Counter- melody	An 'extra' melody often performed 'on top of' the main melody to compliment it
Homophonic (texture)	A texture that has a <b>melody and</b> accompaniment (e.g chords/bassline)
Lead Sheet	Form of <b>notation that only shows the essential parts</b> (eg lyrics, bassline and chords) to perform from
Arrangement	Adapting songs to be performed by other instruments or in a different style
Cover Version	A new <b>performance by someone OTHER than the original artist</b> /songwriter

### C Instruments in popular music





Pop Bands often feature a **DRUM KIT** and **PERCUSSION** to provide the rhythm along with **ELECTRIC GUITARS** (**LEAD GUITAR**, **RHYTHM GUITAR** and **BASS GUITAR**) and **KEYBOARDS**. Sometimes **ACOUSTIC INSTRUMENTS** are used such as



the PIANO or ACOUSTIC GUITAR. ORCHESTRAL INSTRUMENTS are often found in pop songs such as the STRINGS, SAXOPHONE, TROMBONE and TRUMPET. Singers are essential to a pop song - LEAD SINGER - Often the "frontline" member of the band (most famous) who sings most of the melody line to the song. BACKING SINGERS support the lead singer providing HARMONY or a COUNTER-MELODY (a melody that is often higher in pitch and different, but still

'fits with' the main melody) and do not sing all the time but just at certain points within a pop song e.g. in the chorus.



### D Exploring Conjunct and Disjunct Melodies

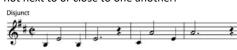
**CONJUNCT MELODIC MOTION** – Melodies which move mainly by step or use notes which are next to or close to one another.

Conjunct



SCAN ME

**DISJUNCT MELODIC MOTION** – Melodies which move mainly by leap or use notes which are not next to or close to one another.

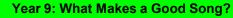


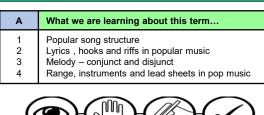


MELODIC RANGE – The distance between the lowest and highest note in a melody

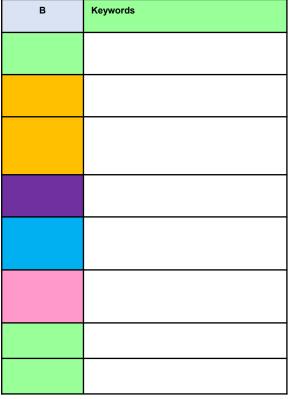
Note	Name	Beats	Rest	Note	Name	Beats	Rest
0	Semibreve, Whole Note	4 beats	_	0.	Dotted Semibreve, Dotted Whole Note	6 beats	_
d	Minim, Half Note	2 beats	-	d.	Dotted Minim, Dotted Half Note	3 beats	-
J	Crotchet, Quarter Note	1 beat	ξ	J.	Dotted Crotchet, Dotted Quarter Note	1% beats	<u>ફ</u> ે.
	Quaver, Eighth Note	1/2 beat	7	J.	Dotted Quaver, Dotted Eighth Note	3/4 beat	7.

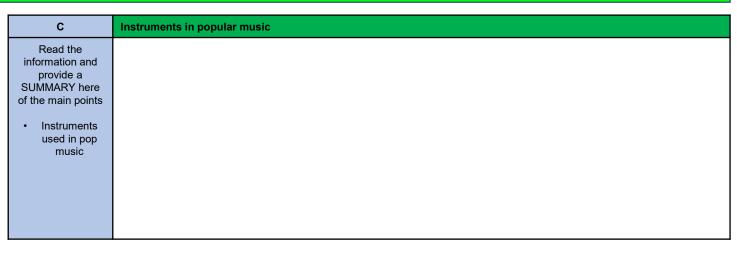
G	Describing music	Describing music – MAD T SHIRT									
M	Α	D	Т	S	Н	ı	R	Т			
Melody	Articulation	Dynamics	Texture	Structure	Harmony/Tonality	Instruments	Rhythm	Tempo			
The tune	How notes are played	Loud/quiet and any other volume changes	Layers of sound / how they fit together	The sections and organising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

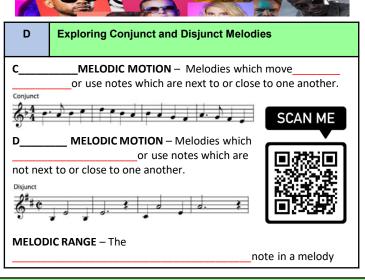


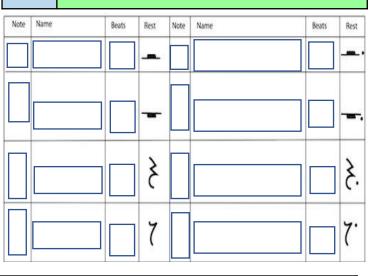




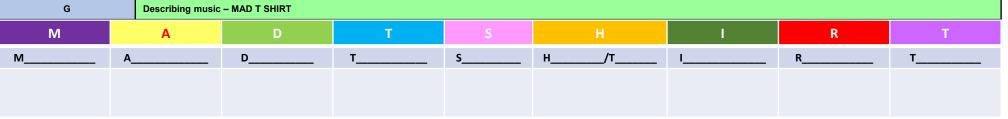








**Note Values and Dotted Note Values** 



### 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 Anyway? Outnumbered. The Office.</u>

### 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

### **Improvisation**

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and for creating

Links to Comp 1 and 2

Spontaneous improvisation-

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Where, who, what?
Location-

Create your own

Character-

Motivation-

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Tips for success

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

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



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