# 100% book - Year 9 Booster

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



## Term 4

Swindon Academy 2022-23			
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."











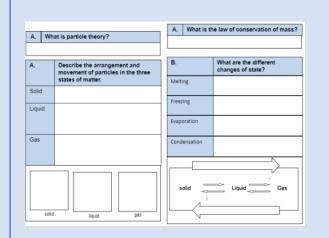
## Using your Knowledge Organiser and Quizzable Knowledge Organiser

## **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.

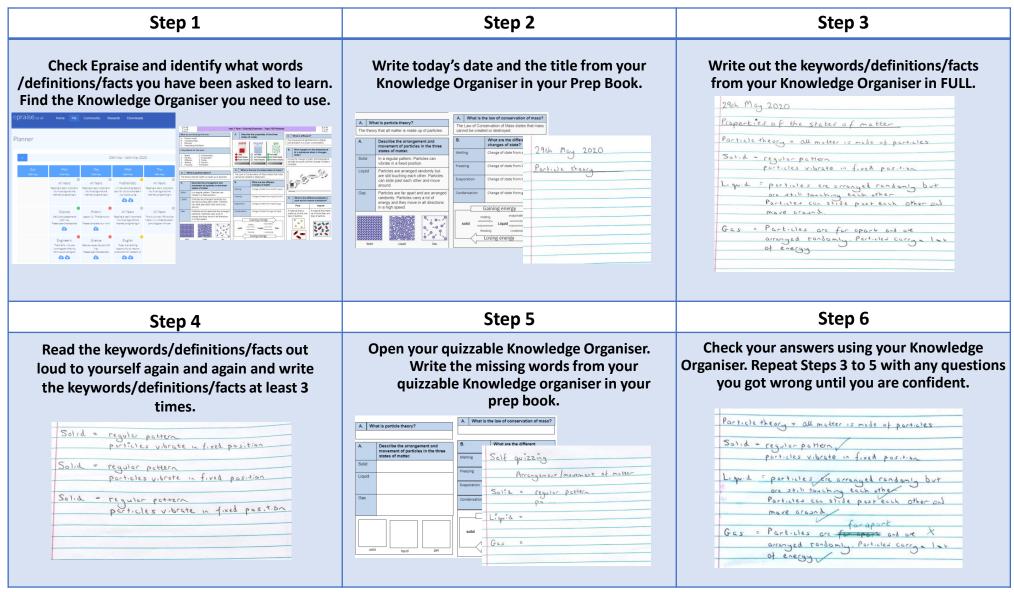
## **Top Tip**

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

## How do I complete Knowledge Organiser Prep?



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

## 'Romeo and Juliet': F Knowledge Organiser

Plo	breakdown	Characters	Vocabulary: Key words
Р	<b>The Prologue</b> outlines the main conflict in the play and warns the audience of the tragic fate of Romeo and Juliet.	Romeo (Montague)	<b>tragic</b> – describes something as being very sad, or as part of a tragedy.
1.1	The Montagues and Capulets fight in the streets of Verona. Prince	Young man. Falls in love with Juliet. Kills himself at the end of the play. "Did my heart love till	submissive - ready to obey or conform to the authority or will of others
	Escales swears that any further fighting will be punished by death.	now? forswear it, sight! For I ne'er saw true beauty till this night"; "Thus with a kiss I die"	narcistic – self-obsessed
1.2	Paris asks Lord Capulet about marring his daughter Juliet. Capulet tells Paris to wait as she is too young.	bedory IIII II IIS TIIGIII , TITOS WIITT A KISS I GIE	<b>feud</b> – a serious argument and sometimes violent argument between two people or groups that continues for a long time.
1.3	Lady Capulet advises Juliet to agree to marry Paris.	Juliet (Capulet)	shrine – a holy place that people go to pray.
1.5	At the Capulet's masked ball, Romeo sees Juliet and falls in love with her. They talk, kiss, and fall in love. As they depart, they learn they are from feuding families.	13-year old girl. Falls in love with Romeo. Kills herself at the end of the play. "Wherefore art thou Romeo? Deny thy father and refuse thy	status quo – the situation that exists now, without any changes.
	In the balcony scene, Romeo and Juliet fall deeper in love. They	name"; "O happy dagger, This is thy sheath;	obstacle – a problem that must be overcome.
2.2	agree to get married.	there rust, and let me die"	<b>vindictive</b> – vengeful
	Romeo asks Friar Lawrence to marry him and Juliet. Lawrence		patriarchy - a society in which power lies with men
2.3	agrees, thinking it will unite the warring families.	Lord Capulet (Capulet) Head of the Capulet family. Juliet's father.	belligerent - warlike
2.6	Friar Lawrence marries Romeo and Juliet.	Orders her to marry his friend, Paris. "She will be	exile (vb.) – to force them from their home and live in another place.
3 1	Montagues and Capulets fight in the streets. Tybalt kills Mercutio; Romeo kills Tybalt. Prince Escales decides to banish Romeo from	ruled In all respects by me"	tenacious – very determined
J. I	Verona.	Paris (no family)	<b>catastrophe</b> – a terrible accident.
3.4	Lord Capulet tells Paris that he can marry Juliet in three days' time.	Nobleman of Verona. Wants to marry Juliet.	stoicism – calm self control
3.5	After their wedding night, Romeo leaves Juliet for the last time. They have a vision of the other's death. After Romeo leaves, Lord Capulet orders Juliet to marry Paris, threatening to disown her if she disobeys.	Killed by Romeo at the end of the play.  Friar Lawrence (no family) Religious leader in Verona. Agrees to marry	Terminology: Key words  Tragedy – a play in which the main character brings about their own downfall.
	Friar Lawrence comes up with a plan: Juliet must pretend to be	Romeo and Juliet, thinking it will bring peace to the city. "For this alliance may prove To turn	<b>prologue</b> – the introduction to a book, film, or play.
4.1	dead and then escape Verona with Romeo. She agrees to the plan.	your households' rancour to pure love"	sonnet – a type of love poem. It has 14 lines, a strict rhyme scheme and 10 syllables per line.
E 2	Romeo does not learn of Friar Lawrence's plan. He sneaks back into Verona and visits Juliet's tomb. He thinks she is dead, and kills himself with poison. Moments later, Juliet wakes up. She finds	<b>Mercutio (Montague)</b> Romeo's friend. Killed by Tybalt. "A <i>plague</i>	dramatic irony – when the audience knows something that the character on stage does not
3.3	Romeo's body and kills herself with his dagger. The two families agree to end their feud.	a 'both your houses!"	<b>Tragic hero</b> – the main character in a Tragedy that makes an error of judgement that leads to their downfall.
The	Big Ideas:	Prince Escales (no family) Ruler of Verona. Wants to bring peace to the city. "If ever you disturb our streets again, Your	<b>soliloquy</b> – a speech in a play where the character speaks to himself or herself.
	of women: Juliet is powerless to make her own decisions.	lives shall pay the forfeit of the peace"	hyperbole – exaggeration.
a pc	is ruled by her father who eventually decides to marry her off to owerful man. She breaks the status quo when she defies her	Structure of Shakespearean	<b>tragic flaw -</b> a character has a tragic flaw when what makes them so special also brings about their downfall.
	er and makes her own decisions.  ution of Juliet's character: Juliet is a stereotypical Renaissance	tragedy (Bradley)	<b>foreshadow</b> – to show or warn that something bigger, worse, or more important is coming.
	ghter at the outset, she is loyal and submissive. She becomes	<b>Exposition</b> Introduces the main characters	thesis – the main idea that you want to discuss throughout an essay.
	owered and independent through her romance with Romeo. becomes a tragic hero by acting in pursuit of her own desires.	and the obstacles they will overcome in the play.	Features of Shakespearean tragedy (Bradley)
of 'h one	edy: A Shakespearean tragedy is the story of one or two heroes igh-status,' such as Kings or Lords. They act in pursuit of desire. The story leads up to and includes the death of the hero result of their actions.	<b>Rising tension</b> The heroes try to overcome the obstacles they face. They suffer.	The characters are 'high-status' – they are important people.  The tragic hero acts: they try to do things. They don't just let things happen to them.
Fate	and destiny: Fate is the idea that the events of someone's life	<b>Catastrophe</b> The play ends with the deaths of the heroes.	Whatever they try to do, it always <b>puts them in a worse situation</b> .
fate	not in their control. The star-crossed lovers suggests they were d for tragedy. This leads to many questions: Is the tragic ending itable? Do they act independently?		They are <b>exceptional</b> – there is something that makes them special.

## <u>'Romeo and Juliet': F Knowledge Organiser</u>

Plo	breakdown	Characters	Vocabulary: Key words
P	<b>The</b> outlines the main conflict in the play and warns the audience of the fate of Romeo and Juliet.	Romeo (Montague) Young man. Falls in love with Kills	tragic – describes something as being very, or as part of a
1.1	The Montagues and Capulets fight in the streets of Verona. Prince Escales swears that any further fighting will be punished by	at the end of the play. "Did my heart love till now? forswear it, sight! For I ne'er	submissive - ready to or conform to the authority or will of others
1.2	Paris asks Lord Capulet about his daughter Juliet. Capulet tells Paris to wait as she is too	saw true beauty till this night"; "Thus with a kiss I die"	narcistic –  feud – a serious and sometimes argument between
1.3	Lady Capulet advises Juliet to to marry Paris.	Juliet (Capulet)	two people or groups that continues for a long time.
1.5	At the Capulet's masked ball, Romeo sees Juliet and falls in with her. They talk, kiss, and fall in love. As they depart, they learn they are from families.	girl. Falls in love with Kills herself at the end of the play. "Wherefore art thou Romeo? Deny thy father and refuse thy	shrine – a place that people go to status quo – the that exists now, without any
2.2	In thescene, Romeo and Juliet fall deeper in love. They agree to get	name"; "O happy dagger, This is thy sheath; there rust, and let me die"	obstacle – a that must be overcome.
2.3	Romeo asks Friar to marry him and Juliet. Lawrence agrees, thinking it will the warring families.	Lord Capulet (Capulet) of the Capulet family.	patriarchy - a society in which lies with
2.6	Friar Lawrence Romeo and Juliet.	father. Orders her to marry his friend,	belligerent
3.1	Montagues and Capulets fight in the streets. Tybalt kills Mercutio; Romeo kills Prince Escales decides to Romeo from Verona.	"She will be ruled in all respects by me"	<b>exile (vb.)</b> – to them from their and live in another place.
3.4	Lord Capulet tells Paris that he can marry Juliet in days' time.	<b>Paris (no family)</b> Nobleman of Verona. Wants to marry	tenacious – very
	After their wedding night, Romeo leaves Juliet for the last time. They	Killed by at the end of the	catastrophe – a terrible
3.5	have a vision of the other's After Romeo leaves, Lord Capulet orders Juliet to marry, threatening to her if she	play.	stoicism – calm
	disobeys.	Friar Lawrence (no family)leader in Verona. Agrees to	Terminology: Key words
4.1	Friar Lawrence comes up with a plan: Juliet must pretend to be and then escape Verona with Romeo. She agrees to the plan.	Romeo and Juliet, thinking it will bring to the city. "For this alliance	Tragedy – a play in which the main character brings about their own
	Romeo does not learn of Friar Lawrence's plan. He sneaks back into Verona and visits Juliet's tomb. He thinks she is	may prove To turn your households' rancour to	prologue – the to a book, film, or play.
5.3	with Moments later, Juliet wakes up. She finds Romeo's body and kills herself with his The two families agree to	pure love"  Mercutio (Montague)	sonnet – a type of poem. It has 14 lines, a strict rhyme scheme and 10 syllables per line.
their feud.		Romeo's friend. Killed by "A plague	dramatic irony – when the knows something that the character on
The	Big Ideas:	a'both your houses!"	does not
Role	of women: Juliet is to make her own decisions.	Prince Escales (no family) of Verona. Wants to bring	Tragic hero – the main in a Tragedy that makes an error of judgement that leads to their
	is by her father who eventually decides to marry her o a powerful man. She breaks the status quo when she	to the city. "If ever you disturb our streets again,	soliloquy – a in a play where the character speaks to himself or herself.
	father and makes her own decisions.	Your lives shall pay the forfeit of the peace"	hyperbole –
	ution of Juliet's character: Juliet is a stereotypical Renaissance ghter at the outset, she is loyal and She becomes	Structure of Shakespearean tragedy (Bradley)	tragic flaw - a character has a tragic flaw when what makes them so also brings about their
empowered and through her romance with Romeo. She becomes a by acting in pursuit of her own		Exposition Introduces the main	foreshadow – to show or that something bigger, worse, or more important is
		and the they will overcome in the	thesis – the main that you want to discuss throughout an
Tragedy: A Shakespearean tragedy is the story of one or two of 'high-status,' such as Kings or Lords. They act in pursuit of one The story leads up to and includes the of the hero as a result of their .		play.	Features of Shakespearean tragedy (Bradley)
		<b>Rising tension</b> The try to the obstacles they face. They	The characters are ' <b>high-status</b> ' – they are people.
Fate and destiny: Fate is the idea that the events of someone's life		Catastrophe The play ends with the	The tragic hero <b>acts</b> : they <b>try to do things</b> . They don't just things happen to them.
for_	not in their control. The lovers suggests they were fated This leads to many questions: Is the tragic ending itable? Do they act independently?	of the heroes.	Whatever they try to do, it always <b>puts them in a situation</b> .
iiie\	indules no mey aci independentlys		They are <b>exceptional</b> – there is something that makes them .





## What we are learning this term:

- A. Forces
- B. Moments
- C. Springs
- D. Energy transfers in mechanical systems
- E. Balanced forces in mechanical systems

## 5 Key Words for this term

- 1. Internal
- 4. Deformation

2. Work

- 5. Moment
- 3. Equilibrium

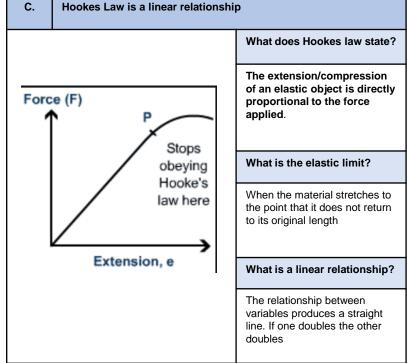
C.	What do these terms mean?		
Deformation		Changing of shape by a force	
Compression		Changing the shape by squashing	
Tension		Changing the shape by stretching	

D.	What is Internal energy?			
	Internal energy = kinetic energy of the particles + potential energy of the particles.			
Kinetic energy		All matter is made of particles that are moving		
Potential energy		Energy due to the relative position of particles, and the attraction between particles.		

Forces: Newtons Laws	
hat is a Resultant Force?	The overall force of 2 or more forces acting in different directions
nat is Newton's First Law	<ul> <li>A stationary object stays stationary unless a resultant force acts on it.</li> <li>A moving object keeps moving at a constant speed unless a resultant force acts on it.</li> </ul>
hat is Newton's Second Law	<ul> <li>A resultant force acting on an object causes acceleration,</li> <li>This depends on the size of the resultant force and the mass of the object.</li> </ul> This formula shows the link: F <sub>R</sub> = m × a
	$F_R$ is the <u>resultant force</u> measured in newtons, m is the <u>mass</u> of the object measured in kilograms, a is the <u>acceleration</u> of the object measured in metres per second per second (m/s/s).
hat is Newton's Third Law	<ul> <li><u>F</u>orces are always caused by an interaction between <b>two</b> objects.</li> <li>Each force has an equal and opposite reaction</li> </ul>
	hat is a Resultant Force? hat is Newton's First Law hat is Newton's Second

All	What Unit is <u>usually</u> used?		
Force	<b>;</b>	N (newton)	
Energy		J (joule)	
Distance		m (metre)	
Moments		Nm (newton metres)	

D. Work Done					
work done = force	work done = force $\times$ distance moved in the direction of the force				
Applying a force to get an object to move is one way to transfer energy between	Work is done (energy is transferred) when elastic objects are?	What is the amount of work done?			
stores.  Transferring energy is also known as 'doing work'.	Extended     Compressed	The amount of elastic potential energy stored in the elastic object			







What we are le	arning this teri	m:	Α	Forces: Newtons Laws				
<ul><li>A. Forces</li><li>B. Moments</li><li>C. Springs</li><li>D. Energy tran</li><li>E. Balanced for</li></ul>	sfers in mechar			nat is a Resultant Force? nat is Newton's First Law				
5 Key Words for 1. 2. 3.	4. 5.		Wh	nat is Newton's Second Law				
C. What do	these phrases n	nean?						
Deformation			Wh	nat is Newton's Third Law				
Compression								
Tension			All	What is the Unit usuall		C.	Hookes Law is a linear relationsh	ıip
D. What is In	ternal energy		Force	used?				What does Hookes law state?
Internal energy =			Ener	rgy	-			
	All matter is ma	ade of particles that are	Dista	ance		Forc	e (F)	
		he relative position of ne attraction between	Mom	nents			Stops obeying Hooke's	What is the elastic limit?
D. What is th	e equation for W	/ork Done?					law here	
-								
Applying a force object to move transfer energy stores.	s one way to	Work is done (energy is transferred) when elastic objects are ?		Vhat is the amount of work one?			Extension, e	What is a linear relationship?
Transferring en known as ' <b>doin</b>								





## E. Turning effects

Both the effort and load are forces that have a turning effect – they make the lever rotate

What is the moment of the force?

The size of the forces turning effect

How can you increase the moment of a force?

- · Increase the force
- Increase the perpendicular distance from the pivot

E.	What are levers are what are the parts of them?		
	Levers involve turning, or rotation. Levers allow forces applied to be multiplied		
Pivot Levers have a pivot, a fixed centre of rotation		Levers have a pivot, a fixed centre of rotation	
Effort The force applied to a lever		The force applied to a lever	
Load The output force of the lever		The output force of the lever	

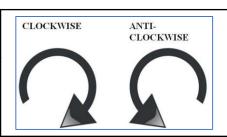
## E. Equation to calculate the moment of a force

 $moment = force \times perpendicular distance from pivot$ 

Moments are measured in a compound measure using the units for force and distance, usually newtonmetres, Nm.

_	Moments
E.	

Ways to describe the direction of moments of a force

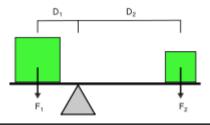


E.	Moments			
Key t	erms	Definitions		
I IEVET I '		A simple machine that multiplies applied forces (efforts) through rotation around a pivot.		
rotation  Turning, with a fixed centre of rotation. Rotation can be clockwise or anticlockwise – see diagram.				
turning effect  The rotation of a lever caused by a force (effort OR load force).		The rotation of a lever caused by a force (effort OR load force).		
moment Another, more formal, name for 'turning effect of a force' equation.		Another, more formal, name for 'turning effect of a force'. See equation.		
perpendicular At right angles to.		At right angles to.		
equilibrium  Describes a lever that is NOT rotating because the clockwis and anticlockwise moments are equal.				

## E. When does equilibrium in lever systems happen?

- · When a lever is at equilibrium, it is NOT rotating.
- Equilibrium happens when:

the clockwise moments = the anticlockwise moments



- The forces in each direction are not necessarily equal, but the *moments* of the forces in each direction are equal at equilibrium.
- Where there are multiple forces in one direction (clockwise or anticlockwise), the TOTAL moment in one direction is found by <u>adding up</u> the moments of each force in a particular direction.





E.	Turning effects			
	Both the effort and load are forces that have a turning effect – they make the lever rotate			
What is	the moment of the force?			
How can you increase the moment of a force?				

E.	What a	re levers and what are the different parts?		
Levers involve turning, or rotation. Levers allow forces applied to be multiplied.				
Pivot				
Effort				
Load				

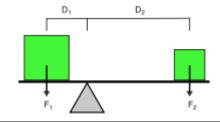
## E. What is the equation to calculate the moment of a force?

Moments are measured in a compound measure using the units for force and distance, usually newtonmetres, Nm.

E.	Moments	
	Vhat ways describe the lirection of moments of a orce?	

E.	Moments		
Key t	erms	Definitions	
lever			
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moment			
perpendicular			
equilibrium			

## E. When does equilibrium in lever systems happen?



- The forces in each direction are not necessarily equal, but the *moments* of the forces in each direction are equal at equilibrium.
- Where there are multiple forces in one direction (clockwise or anticlockwise), the TOTAL moment in one direction is found by <u>adding up</u> the moments of each force in a particular direction.



## Year 9 Alternative Curriculum Term 4 Science/Chemistry: Topic9 CE Energetics and Rates



### What we are learning this term:

A. Types of reaction

C. Energy in Reactions

B. Catalysts

## 5 Key Words for this term

- 1. Decomposition
- 4. Endothermic

2. Oxidation

Α.

5. Displacement

3. Exothermic

### What is a chemical reaction?

The breaking of bonds in reactants and making of bonds to for products. A new substance is formed

## What is Thermal Decomposition?

Thermal decomposition is a chemical reaction where heat is used to break down a substance.

## Does a thermal decompostion reaction give out energy, or take in energy from its surroundings?

Thermal decomposition is an endothermic reaction - it takes in energy. Because thermal decomposition is endothermic, it means bonds are being broken.

Examples: Zinc Carbonate  $\Rightarrow$  Zinc Oxide + Carbon dioxide  $ZnCO_3 \Rightarrow ZnO + CO_2$ 



Magnesium carbonate  $\rightarrow$  Magnesium Oxide + Carbon dioxide MgCO $_3$   $\rightarrow$  MgO + CO $_2$ 



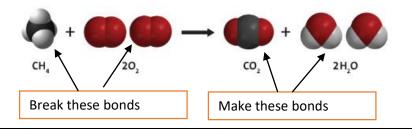
### . What is Combustion?

A chemical reaction where a fuel reacts with oxygen to make carbon dioxide and water

## Does a combustion reaction give out energy, or take in energy from its surroundings?

Combustion is a exothermic reaction- it gives energy into the surroundings. Because combustion is exothermic, it means bonds are being made

Examples: methane + oxygen  $\rightarrow$  carbon dioxide + water  $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$ 



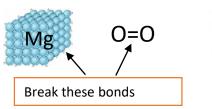
### What is oxidation?

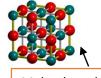
Oxidation is a chemical reaction where an element or compound reacts with oxygen

### Does an oxidation reaction give out energy, or take in energy from its surroundings?

Oxidation reactions are mostly exothermic reactions- giving energy to the surrounding. Because oxidation reactions are exothermic, it means that bonds are being made.

Examples: Magnesium + Oxygen → Magnesium Oxide
Mg + Oxygen → MgO





Make these bonds



## Year 9 Alternative Curriculum Term 4 Science/Chemistry: Topic 9CE Energetics and Rates



### What we are learning this term:

A. Types of reaction

C. Energy in Reactions

B. Catalysts

## 5 Key Words for this term

1.

4.

2. 3. 5.

A. What is a chemical reaction?

A What is Thermal Decomposition?

Does a thermal decompostion reaction give out energy, or take in energy from its surroundings?

Examples: Zinc Carbonate →

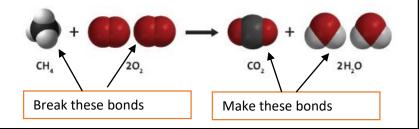
Magnesium carbonate →

Mg → Mg ○ + 600

A. What is Combustion?

Does a combustion reaction give out energy, or take in energy from its surroundings?

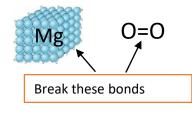
Examples: methane + oxygen →

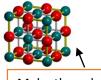


A. What is oxidation?

 $\label{loss_equation} \textbf{Does an oxidation reaction give out energy, or take in energy from its surroundings?}$ 

Examples: Magnesium + Oxygen →





Make these bonds



## Year 9 Alternative Curriculum Term 4 Science/Chemistry: Topic 9CE Energetics and Rates



## B. What 2 things do you need for a successful reaction to happen?

- 1. Particles to collide
- 2. Enough energy for a reaction to occur (activation energy)

#### B. What is the rate of a reaction?

The rate of reaction is the speed at which a chemical reaction is happening. This can vary hugely from reaction to reaction.

What factors can affect rate of reaction?

- 1.Changing temperature
- 2. Changing the concentration of a solution
- 3. Changing the surface area of a solid
- 4. Adding a catalyst

## B. What is a catalyst?

A catalyst is a substance which speeds up a chemical reaction without being used up.

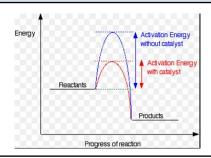
They are specific to each reaction

## B. How do catalysts work?

Catalysts speeds up a reaction by:

- · Lowering the activation energy
- this means that there are more successful collisions
- Therefore a faster reaction.

## How can you show this on a reaction profile?



## B. Why aren't catalysts written in the chemical equation of a reaction?

Catalysts are not included in a chemical equation as they are not used up in a chemical reaction.

## C. What is Activation energy?

The minimum energy required for a successful collision between reactants

## What is a reaction profile?

A graph which show the energies of the reactants and products at different stages of the chemical reaction

C.	What are exc	othermic and endothermic reactions?			
		Exothermic reactions	Endothermic Reactions		
What are they?		An exothermic reaction is a reaction in which energy is transferred from the reacting substances to their surroundings	An endothermic reaction is a reaction in which energy is transferred to the reacting substances from their surroundings.		
		Heat Energy  Reactants  Products	Reactants Products		
Do things cool dowr	warm up or n?	Temperature <b>increases</b> : Energy is transferred to surroundings	Temperature <b>decreases</b> : Energy is absorbed from the surroundings		
Bond making or breaking?		Bond <b>making</b> is an exothermic process	Bond <b>breaking</b> is an endothermic process		
Reaction	profile	Reactants  Reactants  Products  Progress of reaction	Activation energy Energy change Reactants  Progress of reaction		



## Year 9 Alternative Curriculum Term 4 Science/Chemistry : Topic 9CE Energetics and Rates

A	Ø	-
I	E:MC <sup>2</sup>	5
*	200	80

B. What 2 things do you need for a successful reaction to happen?		C.	What is Activ	ation energy?		
1.						
2.			What is	s a reaction p	rofile?	
B.	What is the	rate of a reaction?				
			C.	What are are	othermic and endothermic reactions?	
What	factors can	1.	C.	what are exc	othermic and endothermic reactions?	
affect	rate of	2.			Exothermic reactions	Endothermic Reactions
reacti	on?	3. 4.	What are	e they?		
В.	What is a	catalyst?				
B. How do catalysts work?						
How	can you shov	w this on a reaction profile?	Do thing cool dow	s warm up or vn?		
			Bond ma breaking	aking or g?		
			Reaction	n profile		
В.	Why aren't	t catalysts written in the chemical of a reaction?				



## Geography Knowledge Organiser: Year 9 Term 4 Climate Change



### Background:

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

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

В.	Mea	asuring climate change (3)		
Ice cores		Each layer of ice in a core represents a different year. $\mathrm{CO}_2$ can be measured in each layer, and therefore the temperature.		
Tree rings		Each ring represents a different year. Thicker rings show a warmer climate.		
Historical evidence		Paintings and diaries e.g. paintings of ice fairs on the frozen Thames 500 years ago.		

	C. Natural climate change (3)				
C.	Natura	ıı cıımate	cnange (3)		
			m volcanic eruptions can block t, making it colder.		
Sun	spots		n can give out more energy due to ease in sun spots.		
			oit of the sun changes from oval ) to circular approx. 98,000 yrs.		
E.	Effect	s on peo	ple (6)		
Tropi	ical storn	ns	Increase in frequency and intensity so more damage.		
Sea-	level rise		Increased risk of floods, damaging property and businesses.		
Melti	ng Arctic	ice	Affects trading routes in the Arctic Circle.		
More droughts/ floods		s/	Crop failure, could lead to starvation and famine.		
Cost of defence		ce	Governments have to spend more money on disasters instead of developing.		
Environmental Refugees		al	Pressure on countries to accept refugees.		
G. Strategies to r			esolve climate change (4)		
			Adapting to climate change to make ife easier.		
examples (3) 2 n 3		2 n 3	. Building flood defences.  2. Growing new crops to suit the new climate.  3. Irrigation channels, sending water from areas of surplus to deficit.		
Mitig	ation		rying to stop climate change from appening by reducing greenhouse		

gases.

International agreements.
 Alternative energies.

3. Carbon capture.

Mitigation

examples (3)

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

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

H.	Place spe	cific examples (2)
Adaptio	n	The Thames Barrier. Positive: Stops flooding due to rising sea levels. Negative: Expensive
Mitigation		The Paris Agreement.  Positive: Countries are trying to lower CO <sub>2</sub> emissions.  Negative: The USA pulled out and China did not sign up.



## Geography Knowledge Organiser: Year 9 Term 4 Climate Change

Background:	C. Natural climate change (3)	D. Human-induced climate change (5)
<ol> <li>Since the 1860s the global climate has been recorded.</li> <li>Since then the climate globally has increased by 0.8°         Celsius.     </li> </ol>	Volcanic eruptions	Greenhouse effect
3. Climate scientists can use methods to find out about the global climate before we started recording it. (B)	Sun spots	Greenhouse
4. From this evidence we can see that the planet has always gone through periods of warming and cooling. (A)	Orbital .	gases
5. However, the rapid increase of carbon dioxide in the atmosphere from burning fossil fuels, is causing the enhanced greenhouse effect. (D)	E. Effects on people (6)	Transport
6. The enhanced greenhouse effect is causing changes to the planet, such as the melting of Artic sea ice, rising temperatures, and an increase in extreme weather events such as tropical storms. ( <i>E, F</i> )	Tropical storms	Farming .
7. Countries are trying to resolve the climate change issue by limiting the amount of carbon dioxide released into the atmosphere, this is known as mitigation. ( <i>G</i> , <i>H</i> )	Sea-level rise  Melting Arctic ice	Energy
8. Some countries are trying to adapt to climate change by	Welling / Welle lee	
building flood barriers and growing drought resistant crops. (G, H)	More droughts/ floods	F. Effects on the environment (4)
A. Changes in climate (3)		Sea temperature rises
	Cost of defence	11000
Climate change	Environmental Refugees	More droughts
Glacial periods		Melting glaciers
Giadiai perious	G. Strategies to resolve climate change (4)	(ice rivers)
Inter-glacial periods	Adaptation	Melting Arctic ice
B. Measuring climate change (3)	Adaptation examples (3)	H. Place specific examples (2)
Ice cores	Mitigation	_
	Mitigation	Adaption
Tree rings	examples (3)	Mitigation
Historical evidence		Mitigation

Н.	Can you define these key words?	What we are covering whilst working from home: The Holocaust			Year 9 Term 4 History: The Holocaust				
Anti-Semitism	Hostility or prejudice against Jewish people	We will be looki	ing at: y of anti-Semitism in E	urope (I)			Year	r 9 ierm 4 Ais	story: The Holocaust
Genocide	the deliberate killing of a large group of people, especially those of a particular nation or ethnic group		ersecution of the Jews		in Nazi Germany and the consequences of this	s for	- 1		ctors show about anti-Semitic
Holocaust	destruction or slaughter on a mass scale		sh persecution in Germ	any escalat	ed from 1933-1939 eventually resulting in The	Final			in Medieval Europe?
Persecution	hostility and ill-treatment, especially because of race or political or religious beliefs; oppression		eed to remember the F	lolocaust (L)					ban II appealed to European the Holy Land from the Muslims,
Discrimination	The unjust or prejudicial treatment of different categories of people, especially on the grounds of race, age, or sex	J.	What were th	ne consequ	ences of the Nuremburg Laws for Jews in N Germany?	lazi	se	beginning what we  The religious pass	as to be known as the Crusades. sion that drove men, and later even crusades was to have direct
Lebensraum	Living space in the East (g.g. Poland) where Hitler was planning to build his 1000 year Reich for the master/	What they were		Consequ			The Crusades	consequences for	
Minorities	superior race (Herenvolk)  Anyone considered non-Aryan. Disabled people, homosexuals, Roma	Nuremburg	ptember 1935 the g Laws were passed e a new set of laws	Jew	se laws redefined what it meant to be a Jew - I ish was now a race rather than a religion (you sidered a Jew if you had 3 or 4 Jewish grandpa	were	The C		ng, raping and massacring Jews as
Nuremberg Laws	A series of laws reducing German Jews human Rights such as their ability to marry Germans, to vote, and to	persecute		Gran	ndparents born into a Jewish religious commur sidered 'racially' Jewish and their 'racial' status	nity were	<u> </u>		y, the Bubonic Plague spread
Pogrom	be recognised at citizens  A violent attack on Jewish communities these had been occurring all over Eastern Europe and Russia since	stripped Je	Law on Citizenship ews of their (and all rights of it	• This	sed onto their children and grandchildren legal definition of a Jews covered tens of thou ole who did not think of themselves as a Jews			the population	e, killing an estimated one-third of and ignorance prompted the need
Roma	1900, Known as Gypsies, they were persecuted	governmer	nting, working for the	Jew	eligious or cultural ties to the Jewish communits who hadn't practiced Judaism for years found	d	The Bubonic Plague	to find someone to	o blame, and the Jews were a goat because of the myths and
SA	especially when the Nazi's moved East	to wear a y	ects'. Jews now had vellow star shaped	with	nselves caught in the grip of Nazi terror. Even Jewish grandparents who had converted to C		jë P	stereotypes that v	vere already believed about them
SS	Known as Hitler's bullyboys in the early Hitler's elite part of the army, also responsible	The Reich	entify themselves. Law for the		e defined as Jews. the first time in history, Jews faced persecutior	n not for	ubor		e also dying from the plague, they poisoning wells and spreading the
	for concentration camps network under Himler		of German Blood ir made it so that		t they believed, but for who they were by birth. man no profession of belief could convert a Je		e B	disease – in Gern	nany and Austria approx. 100,000
SS Einsatzgruppe	SS murder squads that went around Eastern Europe looking for Jews, capturing them and then murdering them	marry or h	not allowed to ave intimate		Nuremburg Laws were a crucial step in Nazi r		F	Jews were burned     The founder of the	e 16th century Reformation and
Sterilisation	Preventing men and women from breeding by an operation	Racial infa	ith German citizens. my (as it became is a criminal offense.	ultin	that led to the ostracism of German Jews and nately to their segregation, confinement, and rmination.	1	Martin Luther	Protestantism wro	ote a pamphlet in 1545 entitled The lies, claiming that Jews thirsted for
Genocide	Killing of an entire race of people							•	nd urging the slaying of the Jews
Synagogue	A Jewish place of worship	_			K. How did Jewish persecution	n increase			
Anti-Semitism	Discrimination against Jews as a religious group or race		f Jewish Businesses		Nuremburg Laws 1935			Inacht 1938	Ghettos 1939
The Final Solution	The Nazi government official policy which authorised the murder of all Jews within the Nazi Reich (Empire)	announce	larch 1933, the Nazi Pa ed that from 10am on 1 ycott would behind of a	st April an	On 15 <sup>th</sup> September 1935 the Nuremburg Laws were passed which were a new set of laws which	in (	Germany	outburst of anti-Semitism med gangs ran amok	Key step in the process of brutally separating, persecuting and destroying Europe's Jews
Aryan	Meaning pure German blood. Hitler believed that they would make Germany great again	<ul><li>businesse</li><li>SA memb</li></ul>	es, doctors and lawyers ers (paramilitary unit a	s. issociated	made it easier to persecute Jews.  The Reich Law on Citizenship	am and	ongst Jewish d burning hom	communities, destroying nes, shops, businesses,	1st ghetto established in Poland in October 1939
Concentration Camps	Prison camps set up by the Nazis in 1933, firstly for political opponents (communists), then minorities form criminals, homosexuals, gypsies, Jews. Some later became extermination camps	word <i>Jude</i> Jewish bu	lazis) painted Jewish s e (German word for Je usinesses. u stood outside with ba	w) outside	stripped Jews of their citizenship (and all rights of it such as voting, working for the government etc) and made them 'subjects'. Jews now had	• Soi	neteries. me gangs we	d desecrated Jewish re in Nazi uniforms. ch as the SA and Hitler	Jews who owned any businesses/property were forced to hand them over as they were placed in ghettos.
Extermination Camps	A concentration camp designed for the systematic murder of prisoners eg. Treblinka or Sobibor	people fro	y from Jews') discoura om going inside. ott was not very succe:	-	to wear a yellow star shaped patch to identify themselves.  • The Reich Law for the Protection of	tha		not to wear uniforms so would seem to be by the	Some ghettos were shut in by walls, fences or barbed wire     Temporary– some only lasted a
Eugenics	The study of races. The Nazis' distorted science such as Darwin's survival of the fittest	many ped	ple just ignored the sign of still entered the shop	gns and	German Blood and Honour made it so that Jews were not allowed to	• Soi	me Germans	were horrified, others easure or joined in.	few days or weeks, others for years
Euthanasia	The killing of those disabilities or diseases	lasted jus	t a day, but it marked t of a nationwide camp	he	marry or have intimate relations with German citizens. Racial infamy (as it	• 100	) Jews killed,	814 shop, 171, homes	The majority of ghetto inhabitants died from disease, starvation.
Gestapo	Hitler's spy network, which relied on informants	the Nazi F	Party against the entire		became known) was a criminal	<ul> <li>Jev</li> </ul>	vs were blam	gues destroyed ed and made to pay for	shooting or deportation to
Holocaust	The Holocaust took place in Europe between 1933 and 1945. Six million Jews were systematically and brutally murdered by the Nazis and their collaborators. Millions of non-jews, including Roma and Sinti (Gyptsies), Serbs, political dissidents, people with disabilities, homosexuals and Jehovah's Witnesses, were also	Jewish po	ppulation		offense.		damage 000 Jews ser	nt to camps.	extermination camps.
	persecuted by the Nazis.	L. Why is it i	mportant to remer	nber the H	lolocaust?				
Ghettos	Parts of cities reserved for Jews from 1939, they were unhygienic places to live, had a lack of water and healthcare. They acted as prisoners as they had large walls and curfews.	The Holo	caust demonstrates	the atmos	e. It cannot, and should not, be an event sphere in which genocide can take place aust because it is an example of how the	e.	•	lve into something far m	ore threatening
Kristallnacht	The Night of Broken Glass, people encouraged by the SS burned down synagogues, humiliated Jewish people and many were killed	Rememb     Discussion	ering the Holocaust on about the Holoca	is an impo lust is parti	ortant act in itself and honouring its viction cularly important when we remember it	ms, partic is not an	cularly those isolated eve	e with no family left to relent e.g. Bosnia 1995, Rv	member them, is so important vanda 1994 etc.
Untermensch	Anyone considered an undesirable in Hitler's Germany: disabled, Roma, homosexuals and Jews		does not learn from n so that it remains	•	doomed to repeat it". – it is not enough ssue	to just lea	arn from his	story we must tackle, cha	allenge, debate, discuss, expose

H.	Can you define these key words?	What we are co	vering whilst working	g from hom	e: The Holocaust		Voar	0 Torm 1 Hist	ory: The Holocoust
Anti-Semitism		We will be looking	ng at: r of anti-Semitism in Eu	rone (I)			rear :	9 Terrii 4 mist	ory: The Holocaust
Genocide			ersecution of the Jews		n Nazi Germany and the consequences of this f	or	1		ctors show about anti-Semitic
Holocaust			h persecution in Germ	any escalate	ed from 1933-1939 eventually resulting in The F	nal		attitudes	in Medieval Europe?
Persecution			ed to remember the H	olocaust (L)					
Discrimination		J.	What were th	e conseque	ences of the Nuremburg Laws for Jews in Naz Germany?	:i			
Lebensraum		What they were	:	Consequ			sades		
Minorities							The Crusades		
Nuremberg Laws							누		
Pogrom									
Roma							ague		
SA							c Pl		
SS							uboni		
SS Einsatzgruppe n							The Bubonic Plague		
Sterilisation		]					e.		
Genocide							Martin Luther		
Synagogue				•	K. How did Jewish persecution i			1939.	
Anti-Semitism		Boycott o	f Jewish Businesses	1933	Nuremburg Laws 1935		Kristall	nacht 1938	Ghettos 1939
The Final Solution									
Aryan									
Concentration Camps									
Extermination Camps									
Eugenics									
Euthanasia		1							
Gestapo									
Holocaust									
01 "		I Why is it in	nportant to remen	nher the H	lolocaust?				
Ghettos		L. my is it ii							
Kristallnacht									
Untermensch									

## Year 9 Religious Education: Matters of life and death

A.	Cai	n you define these key words?
Key word		Key definition
Morality	,	Principles concerning the distinction between right and wrong or good and bad behaviour.
Ethics		Moral principles that govern a person's behaviour or the conducting of an activity.
Sanctity of L	.ife	The view that all life is sacred because it is made by God.
Quality of Li	fe	The standard of health, comfort, and happiness experienced by an individual or group.
Natural Moral Law		A system of laws based on close observation of human nature, given to humans by God.
Precept		A general rule intended to regulate behaviour or thought.
Reason		The power of the mind to think, understand, and form judgements logically.
Absolute		A value or principle which is regarded as universally valid.
Situation Ethics		The view that there should be flexibility in the application of moral laws according to circumstances.
Relativism		The view that morality exists in relation to culture, society, or historical context, and is not absolute.
Agape		Unconditional love, "the highest form of love, charity" and "the love of God for man and of man for God".
Abortion		A procedure to end a pregnancy.
Pro-Life		Opposing abortion and euthanasia.
Pro-Choice		Advocating the legal right of a woman to choose whether or not she will have an abortion.
Euthanasia		The painless killing of a patient suffering from an incurable and painful disease or in an irreversible coma.
Capital Puni ment	sh	The legally authorized killing of someone as punishment for a crime.
Dominion		To be in charge of something or rule over it.
Stewardship	)	The job of supervising or taking care of something.

С	What does the theory of Natural Moral Law say about moral behaviour?	What are the 5 precepts of NML that we must be fulfilling for morally good behaviour?
	Some actions are always morally good / bad because god says so.	Preserve innocent life     Live in an ordered society     Educate children
	We can look at human nature to see what is good and bad.	4. Reproduce 5. Worship God

D	What are the strengths of NML theory about what is morally good?	What are the weaknesses of NML theory about what is morally good?
	Everyone can see for themselves what is morally good	If you do not believe in a God who has created absolute moral laws about right and wrong then NML cannot tell us anything about right or wrong.
	It seems to be true that we do follow the primary precepts- it is in our nature- and following them will generally bring about what we think of as good. For example, preserve life' means people will protect the innocent and also believe murder is wrong	It might make us do bad actions. For example, the use of contraception is wrong according to NML because it does not contribute to reproduction.

١	What does the theory of situation ethics say about moral behaviour?	What are the strengths of S.E theory about what is morally good?	the	nat are the weakness of S.E cory about what is morally od?
	There are no absolute moral laws about right or wrong. The only guiding principle about what is morally right is 'do the most loving thing' in any situation.	It allows flexibility  For example, if a mad axeman came in asking for your mother you woul not want to tell the truth because it could lead to her death!		How can we be sure what is the most loving thing when we cannot be sure what the outcome of our actions will be

B .	Bible quotes relating to the sanctity of life
1	Humans were 'made in the image of God'
2	'All your days are ordained (set out) for you'
3	'The body is a temple of the holy spirit'
4	"Only God gives and takes life'
5	'Do not kill'

## Year 9 Religious Education: Matters of life and death

Morality   Morality		an you define these key words?	С	Wh bel	nat does the theory of Natural Moral haviour?	Law say about mo		What are the 5 precepts of NML we must be fulfilling for morally	that good
Ethics  Sanctity of Life  Quality of Life  Quality of Life  Natural Moral Law  Precept  Reason  Absolute  Situation Ethics  E What does the theory of situation ethics say about moral behaviour?  Relativism  Agape  Abortion  Pro-Life  Pro-Choice  Euthanasia  Capital Punish ment  Capital Punish ment  Capital Punish ment  2  Dominion  Stewardship  What are the strengths of NML theory about what is morally good?  What are the weakness of S.E. theory about what is morally good?  Bible quotes relating to the sanctity of life  1  2  3  4	Key word	Key definition						behaviour?	
Sanctity of Life  Quality of Life  Quality of Life  D What are the strengths of NML theory about what is morally good?  Precept  Reason  Absolute  Situation Ethics  E What does the theory of situation ethics say about moral behaviour?  Relativism  Agape  Abortion  Pro-Life  E What does the theory of situation ethics say about moral behaviour?  B Bible quotes relating to the sanctity of life  Capital Punish ment  Capital Punish ment  Dominion  Stewardship  Again  Again  Again  Again  Again  Again  Again  B Bible quotes relating to the sanctity of life  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Morality								
Quality of Life  D What are the strengths of NML theory about what is morally good?    Natural Moral Law   Precept	Ethics								
Natural Moral Law   Frecept   Reason   Absolute	Sanctity of Life								
Natural Moral Law  Precept  Reason  Absolute  Situation Ethics  E What does the theory of situation ethics say about moral behaviour?  Relativism  Agape  Abortion  Pro-Life  Pro-Choice  Euthanasia  Capital Punish ment  Dominion  Stewardship  B Bible quotes relating to the sanctity of life  1 2 3 4	Quality of Life		D	)	What are the strengths of NML the is morally good?	eory about what	What are the	e weaknesses of NML theory is morally good?	
Reason  Absolute  Situation Ethics  E What does the theory of situation ethics say about moral behaviour?  Relativism  Agape  Abortion  Pro-Life  Pro-Choice  Euthanasia  Capital Punish ment  Dominion  Stewardship									
Absolute  Situation Ethics  E What does the theory of situation ethics say about moral behaviour? S.E theory about what is morally good?  Relativism  Agape  Abortion  Pro-Life  Pro-Choice  Euthanasia  Capital Punish ment  Dominion  Stewardship	Precept								
Situation Ethics  E What does the theory of situation ethics say about moral behaviour?  Relativism  Agape  Abortion  Pro-Life  Pro-Choice  Euthanasia  Capital Punish ment  Dominion  Stewardship  E What does the theory of situation ethics say about moral behaviour?  What are the strengths of S.E theory about what is morally good?  What are the strengths of S.E theory about what is morally good?  What are the strengths of S.E theory about what is morally good?  B Bible quotes relating to the sanctity of life  1 2 3 4	Reason								
Relativism  Agape  Abortion  Pro-Life  Euthanasia  Capital Punish ment  Dominion  S.E theory about what is morally good?	Absolute								
Agape Abortion Pro-Life  Pro-Choice  Euthanasia  Capital Punish ment  Dominion  Stewardship  B Bible quotes relating to the sanctity of life  1 2 4	Situation Ethics		E	<u>W</u>	hat does the theory of situation hics say about moral behaviour?	S.E theory about	engths of what is	theory about what is morally	
Abortion  Pro-Life  Pro-Choice  Euthanasia  Capital Punish ment  Dominion  Stewardship  Bible quotes relating to the sanctity of life  1 2 3 4	Relativism								
Pro-Choice  Euthanasia  Capital Punish ment  Dominion  Stewardship	Agape								
Pro-Choice  Euthanasia  Capital Punish ment  Dominion  Stewardship	Abortion								
Euthanasia  Capital Punish ment  Dominion  Stewardship  B Bible quotes relating to the sanctity of life  1  3  4	Pro-Life								
Euthanasia  Capital Punish ment  Dominion  Stewardship									
Capital Punish ment  2  Dominion  Stewardship	Pro-Choice		В	l p:	ible suctor veleting to the constitue	A life			
Stewardship 4			B .	Bi	ible quotes relating to the sanctity o	of life			
Stewardship	Euthanasia  Capital Punish		1	Bi	ible quotes relating to the sanctity o	of life			
	Euthanasia  Capital Punish ment		1 2 3	Bi	ible quotes relating to the sanctity o	of life			

## What we are learning this term: A. Cubism B. Frank Stella Segments and Templates Relief Sculpture

## Answer the questions about Frank Stella

What type of sculptures does Frank make? Relief Sculptures

Year 9 Art : Topic = Frank Stella

- What materials does he use? Frank uses a range of metal and Cardboard to create skeleton of the sculpture How big are his sculptures? His sculptures can fill a whole room and usually fill up a whole wall.
- C. Segments & Templates- Looking at the image below, what describing words could you use to describe this artwork by Frank Stella. Use your formal elements to guide you.
- 1. Organic, natural, colourful, curvy, bright, bold, pattern, skewed, misshaped, mixed, disconnected, random, thought provoking

#### Cubism- List 3 facts about Cubism. What does it look like? Who created it? What different types of cubism are there?

- 1. Cubism can be described as angular and a smashed mirror effect
- 2. Cubism was created by Georges Braque and Pablo Picasso in 1907
- 3. There are two types of Cubism; Analytical and Synthetic. Analytical is sharp and dull colours, Synthetic is bright and organic

Using the grid method technique, draw this Frank Stella image into 'Your response' box.



**Keywords** 

squares and circles

Your response

Abstract art is art that does not attempt to represent an accurate

depiction of a visual reality but instead use shapes, colours, forms and

Is something associated with geometry, or the use of straight lines and

shapes. An example of geometric is an art piece made from rectangles,

The art of processing by carving, modeling with plastic or hard materials

into works of art. A three-dimensional work of art such as a statue

are line, shape, form, tone, texture, pattern, colour and composition

## This is a relief sculpture; how has it been made and what materials have been used?

To create a relief sculpture you will need Cardboard or a strong yet easily cut material. Start by having an image to create from. The image on the left has been created by many layers of cut Cardboard. As more layers are added they create a 3-dimensional illusion.

#### Write a step by step guide to making a cardboard template for relief sculpture



Firstly cut out individual sections and shapes from your chosen image. use scissors



Lay your section that you have cut out onto Cardboard and glue it down. Using a sharp pair of scissors cut this out of Cardboard staying very close to the edge



Once you have cut out all of your shapes and sections from the Cardboard you can arrange them and layer them onto



Finally seal all of your relief sculpture together with PVA glue .this will help to secure it, give it extra



## Write a step- by- step guide to slab method & score and slip.

Slab

Firstly, start off by having your wooden board your wooden slats and your rolling pin With your ball of clay in the middle. Make sure the slats are the same thickness. Start off by gently rolling out your ball of clay in a rectangle, lifting up the clay every so often to rotate it so that you create a square. The slats will prevent the Play from going too thin. The rolling pin should now be rested on the slats as you roll, therefore the clay cannot go any thinner.





Score and slip enables you to join 2 pieces of clay together. The scoring on each side of the clay will create a rough surface for attachment. The slip is watered down clay to create a naste. Using the slin like glue, add



Abstract

Formal Elements

**Ines Kouidis** 

Collage



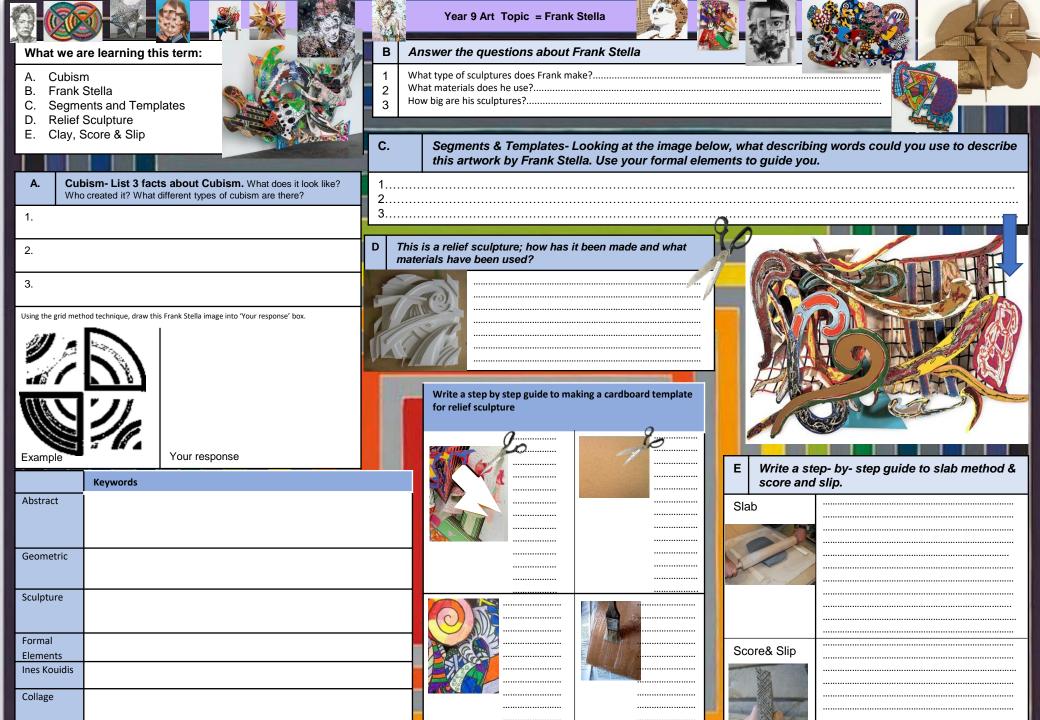
A piece of art made by sticking various materials such as photographs and pieces of paper or fabric on to a backing.

A collage artist who collages famous people

gestural marks to achieve its effect

Clay, Score & Slip

A.



### **Year 9 PRODUCT DESIGN**





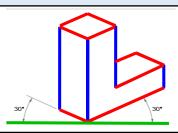
## What we are learning this term:

- A. Drawing Skills
- B. Wood Theory 🗈 🚵
- C. Wooden Joints & Their Uses
- D. Tools & Machinery

## A. Drawing Skills

## **Isometric Technical Drawing**

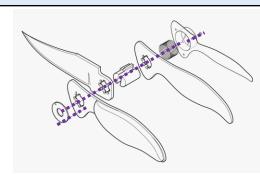
Made up of a series of par parallel **vertical lines** and parallel **30-degree lines**. But no **horizontal lines**.



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

## **Exploded Technical Drawing**

Isometric drawing of all the parts and components of an object.



All parts are shown separately so you can see all aspects. **Dashed lines** indicate where everything goes and in what order.

B.	Wood Th	eory	<b>©</b>
Natura	I	Advantages	Disadvantages
Hardw	ood: Ø	<ul><li>Stronger &amp; durable</li><li>Weather resistant</li><li>Fire resistant</li></ul>	Harder to cut /     curve     More expensive     Longer to grow
Softwo	ood: Ø	<ul><li>Easy to cut / curve</li><li>Cheaper</li><li>Quicker to grow</li></ul>	<ul> <li>Not weather resistant</li> <li>Not fire resistant</li> <li>Weaker &amp; less durable</li> </ul>
Manufa	actured	Advantages	Disadvantages
MDF:	<u>ි</u>	Easy to cut and sand	Not as     aesthetically
, The state of the	₩	<ul><li>Takes paint well</li><li>Comes in wide sheets</li></ul>	pleasing  • Doesn't stain well
Plywoo	od: (愛)	<ul><li>Takes paint well</li><li>Comes in wide</li></ul>	pleasing
	<b>****</b>	<ul> <li>Takes paint well</li> <li>Comes in wide sheets</li> <li>Strong board</li> <li>Can be waterproof</li> <li>Comes in wide</li> </ul>	pleasing     Doesn't stain well      Not as aesthetically pleasing     Doesn't stain well

Manufactured boards are more sustainable than natural woods because made from wasted wood and offcuts.

Softwood is more sustainable than hardwood, because it grows a lot quicker.

C.	W	ooden Joints & Th	eir Uses
Joint		Uses	Image
Mitre Joint		Used mainly for picture frames. Great aesthetics but not very strong unless a dowel is added.	
Dowel Joint		Can be used to repair stripped screw holes and in toy making they are the perfect axles in toy vehicles.	
Mortis and Tenon		Mainly used for furniture. This joint is very strong and durable as well as looking very professional.	
Cross Halvin Joint		Mainly used for cabinets, doors and windows. This joint has very good resistance to side-to-side movement.	

D.	Tool	Tools & Machinery								
Steel Rule		Tri Square	Mitre Square	Dowels	Quick Clamp	Wooden Vice	Tenon Saw	Bandfacer	Pillar Drill	
					S					

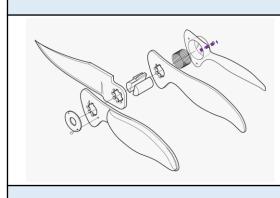




## What we are learning this term:

- A. Drawing Skills ...
  B. Wood Theory ...
- C. Wooden Joints & Their Uses

	Tools & Machinery
A.	Drawing Skills
Isom	etric Technical Drawing
	30*
Expl	oded Technical Drawing



B.	Wood Th	eory			<u></u>	
Natura	1	Advantages		Disadvantages	3	
Hardwood:						
Softwood:						
Manufa	actured	Advantages		Disadvantages		
MDF: 資						
Plywood: (©)						
Sustai	nability = N	latural Wo	od Vs Manuf	actured Boards	23	

9	C.	W	ooden Joints & T	heir Uses
	Joint		Uses	Image
	Mitre Joint			
	Dowe Joint	_		
	Mortis and Tenor			
<u>\$</u>	Cross Halvir Joint			
				Ø/)



#### 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
- D. Skills testing
- E. Healthy cooking
- F. Chopping Board Colours

#### 6 Key Words for this term

- 1 Hygiene 4 Healthy
- 2 Dietary Requirements 5 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 and tie it back.	To protect you from the food and equipment and the food from		



touching you.

#### Year 9 - High Skills

#### . Can you list 5 of the dietary requirements of a teenager?

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



### 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.

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

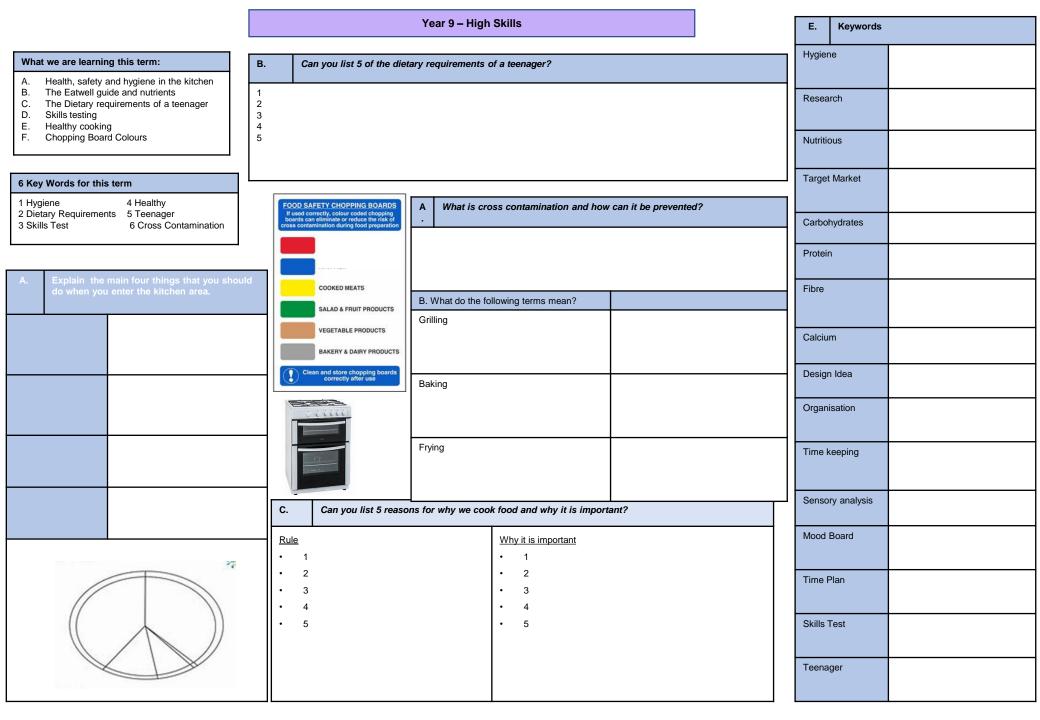
#### Rule

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

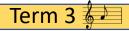
#### Why it is important

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

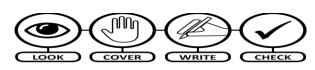
E.	Keywords	ds				
Hygiei	ne	A method of keeping yourself and equipment clean				
Resea	ırch	Information that you find out to help you with a project				
Nutriti	ous	A meal that is healthy and contains vital nutrients.				
Targe	t Market	The age or type of person you re creating a product for.				
Carbo	hydrates	Foods that give you energy				
Protei	n	Food that grow and repair your muscles				
Fibre		Foods that keep your digestive system healthy and avoid constipation.				
Calciu	m	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.				
Organ	isation	Having everything ready for a lesson and following instructions				
Time I	keeping	Using the time to remain organised.				
Senso	ry analysis	Use your senses to taste and describe a product				
Mood	Board	A collage of photos and key words based on a project				
Time I	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	iger	Someone between the age of 13 – 19.				



#### Year 9: You're in the band!

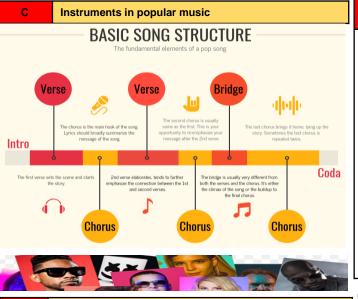


Α	What we are learning about this term
1	Basic Song Structure
2	How to write a perfect Evaluation
3	Playing an instrument / Chords / Melody
4	What are the music symbols – Note values
5	Keywords
6	How to read music - Treble clef and bass clef

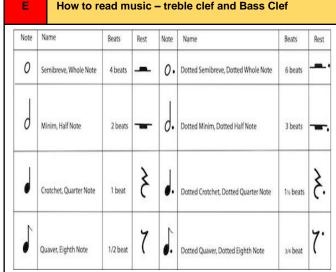


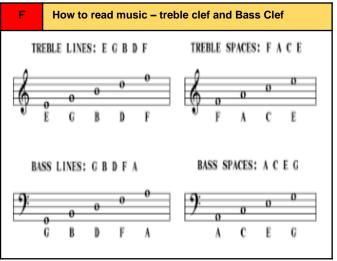
В	Keywords
Instrumental Break	An <b>instrument section</b> during a song – no singing
Lyrics	The <b>words</b> of a song
Verse	A section of a song <b>telling the story</b> , followed by a chorus
Chorus	Repeated idea within a song, lyrics and music usually remain the same
Bridge / Middle 8	Passage of music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

Describing music - MAD T SHIRT



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

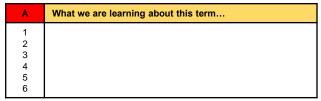


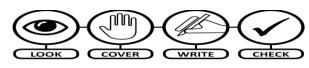


M	Α	D	Т	S	н	ı	R	Т
Melody	Articulation	Dynamics	Texture	Structure	Harmony/Tonality	Instruments	Rhythm	Tempo
The tune	How notes are played	Loud/quiet and any other volume changes	Layers of sound / how they fit together	The sections and organising	Chords used / the mood	Types of instruments heard	Pattern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

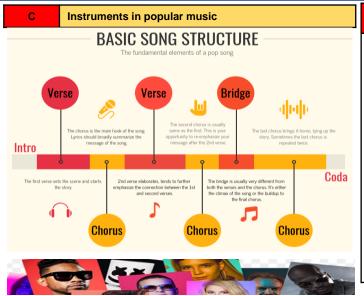


## Year 9: You're in the band!

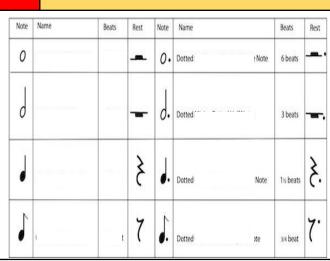




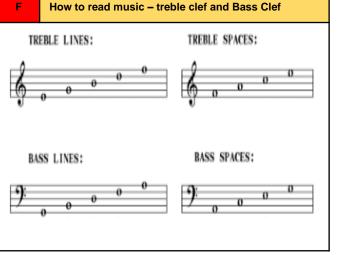
Keywords

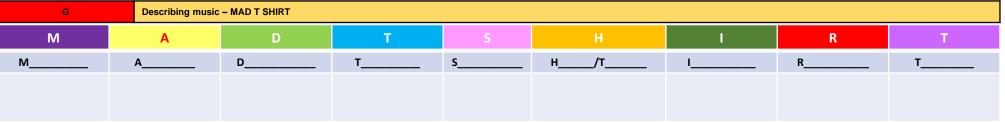


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How to read music - treble clef and Bass Clef







pitch

#### Year 9: Lit in Colour - Performing a Script



#### What we are learning this term:

- A. How to develop our vocal techniques.
- B. How to develop our physical techniques.
- How to interpret the director's creative intention for a group piece.
- D. How to reflect, analyse and evaluate our development.





Noughts and Crosses by Mallorie Blackman	Cape by Inua Allams,	Gone Too Far by ola Agbaje
A stage adaptation of Malorie Blackman's best selling novel, the world of the Crosses and the noughts is reminiscent of Shakespeare's Romeo and Iuliet. It's a modern-day tale of star-crossed lovers, race and violence. Noughts and Crosses is about a segregated society seetering on a volatile knife edge. As violence breaks out, Sephy and Callum draw closer, out this is a romance that will ead them into terrible danger.	Someone mugged Bruce's mum and he is not having it. The shock is still visible in her trembling fingers, rippling out across the calm waters of their lives. He grabs his hoodie, his uniform, his cape and goes out to find the culprit. Smithy wants everyone to stay inside, Uhuru wants everyone out. Tanya thinks it's boyish fun and games until, very suddenly, it isn't.	Nigeria, England, America, Jamaica; are you proud of where you're from? Dark skinned, light skinned, afro, weaves, who are your true brothers and sisters?  When two brothers from different continents go down the street to buy a pint of milk, they lift the lid on a disunited nation where everyone wants to be an individual but no one wants to stand out from the crowd.

KEY WORDS		
articulation	the clarity or distinction of speech	
aside	Lines spoken by an performer to the audience and not supposed to be overheard by other characters on-stage.	
business	a piece of unscripted or improvised action, often comic in intention, used to establish a character, fill a pause in dialogue, or to establish a scene. An author may simply suggest 'business' to indicate the need for some action at that point in the play.	
characterisatio n	how a performer uses body, voice, and thought to develop and portray a character.	
dialogue	spoken conversation used by two or more characters to express thoughts, feelings, and actions.	
focus	in acting, the act of concentrating or staying in character.	
gesture	any movement of the performer's head, shoulder, arm, hand, leg, or foot to convey meaning.	
imaging	a technique which allows performers to slow down and focus individually on an issue. The performers, sitting quietly with eyes closed, allow pictures to form in their minds. These images may be motivated by bits of narration, music, sounds, smells, etc.	
improvisation	the spontaneous use of movement and speech to create a character or object in a particular situation; acting done without a script.	
inflection	change in pitch or loudness of the voice.	
Interaction	the action or relationship among two or more characters	
language	in drama, the particular manner of verbal expression, the diction or style of writing, or the speech or phrasing that suggests a class or profession or type of character.	
mannerism	a peculiarity of speech or behaviour.	
mime	acting without words.	
mirroring	copying the movement and/or expression or look of someone else exactly.	
monologue	a long speech made by one performer; a monologue may be delivered alone or in the presence of others.	
motivation	the reason or reasons for a character's behaviour; an incentive or inducement for further action for a character.	
movement	stage blocking or the movements of the performers onstage during performance; also refers to the action of the play as it moves from event to event.	
pace	rate of movement or speed of action	
performance elements	include acting (e.g., character motivation and analysis, empathy), speaking (breath control, vocal expression and inflection, projection, speaking style, diction), and nonverbal expression (gestures, body alignment, facial expression, character blocking, movement).	

the particular level of a voice, instrument or tune.

	Tongu	e Twisters
	rongu	
Peter	Piper	Peter Piper picked a peck of pickled peppers A peck of pickled peppers Peter Piper picked If Peter Piper picked a peck of pickled peppers Where's the peck of pickled peppers Peter Piper picked?
Betty i	Botter	Betty Botter bought some butter But she said the butter's bitter If I put it in my batter, it will make my batter bitter But a bit of better butter will make my batter better So 'twas better Betty Botter bought a bit of better butter



	Themes and Issues Explored
Diversity	Being composed of differing elements and variety. The inclusion of people of different races, cultures, etc. in a group or organization.
Racism	Behaviour or attitudes that reflect and foster this belief: racial discrimination or prejudice.
Relationshi ps	Connecting or binding people in either a family, friendship or work collaboration.
Responsibil ity	Moral, legal or mental accountability.
Society	A community, nation, or broad grouping of people having common traditions, institutions, and collective activities and interests

#### Script Work- Key focus

You will explore the different techniques needed to explore how to perform a character.

Through a series of workshops and rehearsals you will explore the different Stanislavski techniques used to perform a naturalistic scene. You will explore different physical and vocal exercises needed to perform a character. You will learn what it takes for an actor to memorise the words and movements of a character in a scene and then will perform your chosen scene to an audience in the final week.



KEY WORDS

### Year 9: Lit in Colour - Performing a Script



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KEY WORDS	
articulation	
aside	
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inflection	
Interaction	
language	
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	Tongue Twisters	
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## SWINDON ACADEMY READING CANON

Year 9

Long Way

