# 100% book - Year 9 Mainstream

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



## Term 5

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."



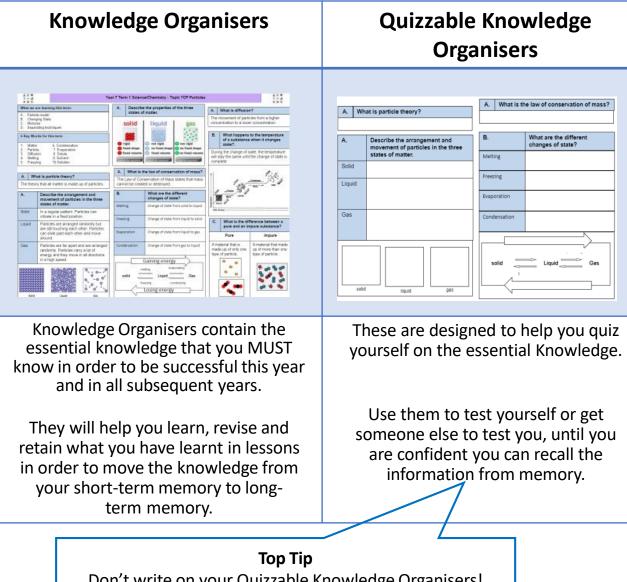








## Using your Knowledge Organiser and Quizzable Knowledge Organiser

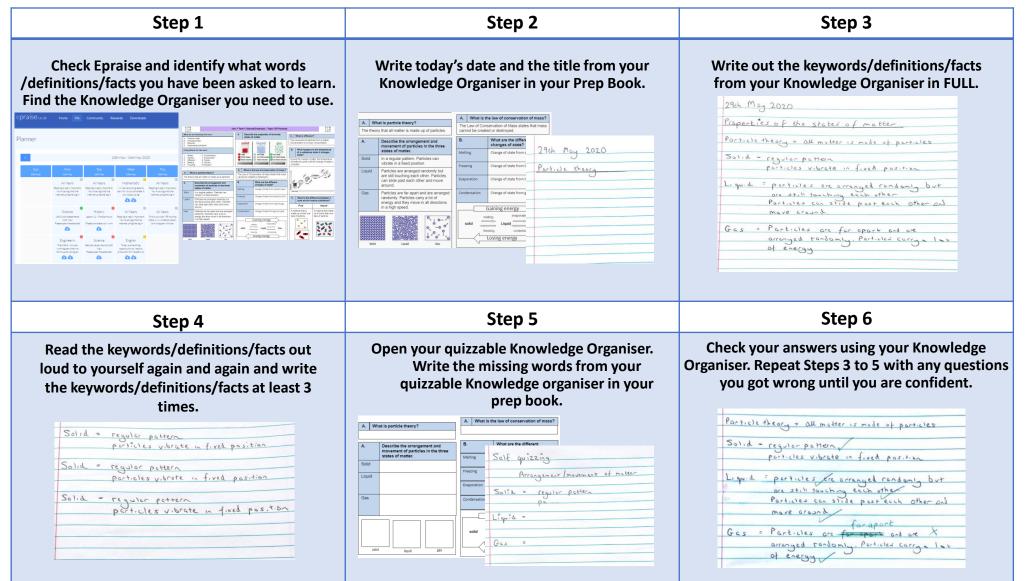


Don't write on your Quizzable Knowledge Organisers! Quiz yourself by writing the missing words in your prep book. That way you can quiz yourself again and again!

# 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.
- 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.

### Comparative Poetry: T Knowledge Organiser

		Compar	ative	Poetry: I Knowledge Organiser						
Poem Journey Type										
	Physical j	ourney from Guyana to England	1.	'I leave me people, me land, me home / For reasons I not too sure	9'					
'Wherever I Hang'		eflection of the changes she has	2.	'And de people pouring from de underground system / Like bean	ıs'					
Grace Nichols	made in	her viewpoints	3.	'I don't know really where I belaang'						
	The journ	ey of letters across the country	1.	'This is the Night Mail crossing the border, / Bringing the cheque and the postal order'						
'The Night Mail'			2.	'All Scotland waits for her: / In the dark glens, beside the pale-green sea lochs / Men long for news						
W. H. Auden					ensed lochs / Merriong for news					
	The journ	ey of slaves to freedom	3.	'For who can bear to feel himself forgotten?' 'Swing low, sweet chariot, Coming for to carry me home'						
'Swing Low Sweet	-	ey of Christians to heaven	2.	'Tell all my friends I'm coming too,						
Chariot'				Coming for to carry me home.'						
Wallace Willis			3.	'But still my soul feels heavenly bound'						
'The Canterbury Tales'	Pilgrimag	je to Canterbury	1.	'pilgrims were they all / That toward Canterbury would ride'						
Geoffrey Chaucer	From the	city to the countryside	2.	'When April with his showers sweet with fruit / The drought of Marc	h has pierced unto the root'					
			3.	'Of England they to Canterbury wend'						
'Telling Tales'		je to Canterbury	1.	On this Routemaster bus: get cerebral/Tabard Inn to Canterbury						
Patience Agbabi	Ihe journ     time	ey of language evolving over	2. 3.	from the grime to the clean-cut iambic,/rime royale, rant or rap, g 'Chaucer Tales, track by track, here's the remix'	get your siam kick					
		ey of Satan to hell	1.	'Of Man's First Disobedience, and the Fruit / Of that Forbidden Tre	مد'					
'Paradise Lost'			2.	'Who first seduc'd them to that foul revolt?'						
John Milton			3.	'Him the Almighty Power / Hurld headlong flaming from th'Ethered	al Skie'					
	Reflecting	g on the journey taken between	1.	'I took the one less travelled by, / And that has made all the differ						
'The Road Not Taken'	two road	ls	2.	'And both that morning equally lay'						
Robert Frost	The journ	ey as a metaphor for a decision	3.	'I shall be telling this with a sigh / Somewhere ages and ages hend	ce'					
	The journ	ey of growing up	1.	'My father thought it bloody queer / the day I rolled home with a ring of silver in my ear'						
'My Father Thought It'			2.	'the hole became a sore, became a wound, and wept'						
Simon Armitage			3.	'At twenty-nine, it comes as no surprise to hear / my own voice br	eaking like a tear'					
'Gap Year'		ey of motherhood	1.	'I remember your Moses basket before you were born'						
Jackie Kay	The journ	ey of a child growing up	2.	'A flip and a skip ago, you were dreaming in your basket'						
			3.	'I have a son out in the big wide world'						
Vocabulary: Key		Terminology: Key words		Historical Context:	Comparative Writing:					
immigrant-: a person who another country permane		comparative statement: These		Nichols is an immigrant who wrote about the Afro-						
When <b>immigrants</b> travel to		statements clearly explain what		Caribbean experience. She uses dialect in her poems and	<ul> <li>Identify similarities and</li> </ul>					
they migrate.		the poems have in common and	how	is influenced by the rhythmic nature of Caribbean	differences between					
dialect: a form of languag specific area.	ge that is used in a	they are different dramatic irony: When the audien	aa ia	language.	poems.					
astrology: the study of the	stars and how	aware of something that a charc		Willis was a slave in America. Many people hoped for	<ul> <li>To see how different poets,</li> </ul>					
their movement affects ea	arth.	not.		death rather than live as a slave. For them, the promise of being taken to heaven after death would have given	with different backgrounds					
Astrologers study the stars.		discourse markers: A word or phro		them hope.	and interests, write about					
		that helps to organise communic	ation	Many people in the Medieval era believed astrology	the same topic.					
	ang: very informal language used by personification: a type of me		nor	influenced many things like the weather, nature,	To see how different writers					
particular groups of peopl rather than written.	rticular groups of people. It is usually spoken used by written			personalities and hormones. Astrology was a respected	use the same literary					
domineering: trying to control others. seem like it is alive with a hupersonality.				science that was used alongside other medical theories.	techniques.					
emulate: imitate		epic: a long, narrative poem		A gap year is a year between leaving school and starting university or starting employment. Most people spend the	<ul> <li>To see how views on topics have changed over time.</li> </ul>					
endeavour: to try hard or t something	to achieve	Venn diagram: a diagram repres	enting year travelling or working.							
mendacious: lying		common elements represented b intersecting circles.	ру		individual poems better.					

### Comparative Poetry: T Knowledge Organiser

		<u>Compa</u>	unve	FOEILY. I KI	<u>iowieuge</u>	orguniser		
Poem Journey Type								
	•	journey from Guyana to England	1.	'I leave me	, me	, me	/ For reasons	I not too sure'
'Wherever I Hang'		reflection of the changes she	2.			from de		
Grace		e in her			eally where I		3ystern	
		ey of across the	3.	'This is the Nigh	eally where I at Mail crossing t	, / Br	inging the	and the '
The Night Mail'	country							
W. H			2.					en sea / Men for news
	The journ	ey of to	3.	<u>'For who can</u>	to feel	?' oming for to n	20 1	
'Swing Low Sweet	-	ey of to	2.		l'm coming		ne	
Chariot'			2.		me			
Wallace			3.	'But still my		,		
The Conterbury Toles'	Pilgrimag	ie to	1.	' were t	hey all / That to	ward would _	,	
'The Canterbury Tales' Geoffrey	From the	to the	2.					rch has unto the'
			3.		ey to we			
'Telling Tales'		D	1.			_ / Tabard Inn to Car	,	
Patience	The journ	ey of evolving over	2.	•		ut iambic,/rime royale	e, rant or rap, get yo	our slam kick
	The journ	ey of to	3.			x, here's the remix' ie / Of that	,	
'Paradise Lost'			2.			?' ?'		
John			3.			headlong frc	om th' Skie'	
	Reflectin	g on the journey taken between	1.			_by, / And that has		, 
'The Road Not Taken'			2.		nat morning			
Robert	The journ	ey as a for a	3.	'I shall be	this with a	/ Somewhere _	and	hence'
	The iourn	ey of	1.	'My the	ought it	(the day)	homo with a	of in my ear'
'My Father Thought It'		ey 01	2.			, became a,		
Simon			3.			,,,,		ke a '
	The journ	ey of	1.			before you were _		
'Gap Year' Jackie	The journ	ey of a	2.	'A and	a ago,	you were in y	/our'	
			3.	'I have a	out in the	·······		
Vocabulary: Key		Terminology: Key words		Historical Co	ontext:		Co	omparative Writing:
immigrant-: a who		comparative statement: These		Nichols is an	who wr	ote about the		
another permane When travel to a _		statements clearly what				_ in her poems and		Identify and
hey	place,	the have in and h	now	influenced by	the no	ature of	·	between poems.
dialect: a form oft	that is used in a	they are			•	• • • • • • • • • • • • • • • • • • •	•	To see how different
area.		dramatic irony: When the				. Many people hop For them, t		with different and
astrology: the study of the	and how	of something that a	IS			ter would he		, about the
their affects the		 discourse markers: A or		them				same
		that to organise			in the	era believed		To see how different write
that				influenced mc	any thinas like	the,		use the same
slang: very langua		personification: a type of byto make something see	Used em like					To see how on
particular of peop rather than	ole. It is usually	it is with a person		alongside othe		pries.		have over
domineering: trying to	 others	epic: a long, poem	, ·	A gap year is a	a year betwee	en a		To the
	00.0.	Venn diagram: a represe	entina		Mo		the veer	better.
emulate:	o comothing	elements represented by		or				
endeavour: to try or to	o something	···						
mendacious:								



Year 9 Term 5 Science/Biology : Topic B1.3 Organisation and the Digestive System

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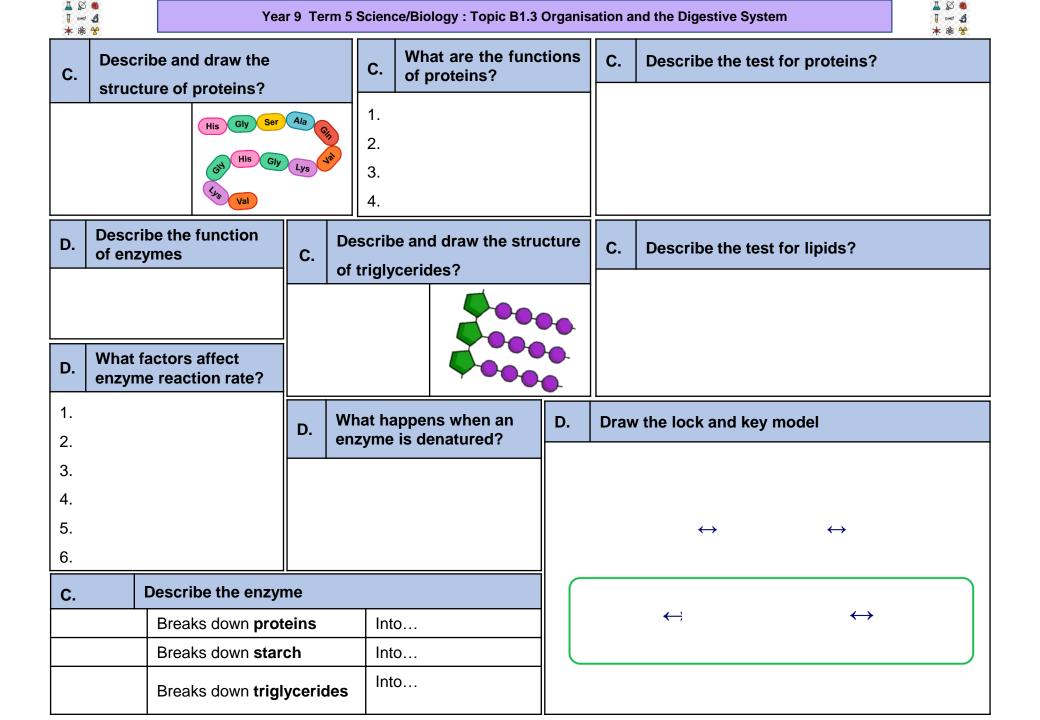
* 8	\$\$ <del>}</del>								* & *		
Wh	at we are le	earning this term:	А.	What is t	he fun	function of each tissue?					
	Tissues		Epithelia	al tissue	Form	orms a protective covering for different parts of the body.					
	Digestive or Biological m	5	Glandul	ar tissue	Secre	etes imp	ortant	substances, such as hormones.			
	Enzymes		Muscula	ar tissue	Contr	movement.					
В.	What is the system?	ne function of each pa	digestive		В.	How a	re the small intestines adapted?				
	Liver	Where bile is made.						he small intestine are covered with <b>villi</b> , w	hich		
	Mouth	Where food is chewe from salivary glands.	d and mixe	ed with saliv	with saliva, • Large <b>surface area</b> .						
Oes	sophagus	Connects the mouth	and stomach.			<ul> <li>Thin membrane.</li> <li>Good blood supply.</li> </ul>					
	LargeWater is absorbed from faeces.			om undigested food, to				is starch stored in plant cell?			
Ga	ll bladder	Where bile is stored.			As starch grains in <b>plastids</b> , including chloropla						
ir	Small ntestine	Where soluble food is	s absorbed	l.			plasts.				
P	ancreas	Where neutralising su are produced.	ubstances	and enzyme	es	C.         Describe the test for sugars           • Add Benedict's solution, to the food solution, and gently					
S	tomach	Churns food and proc	duces hydr	ochloric aci	d.		reducir	ng solution (e.g: glucose) is present, the so	lution		
C.	Describe	e and draw the struct	ure of cark	oohydrates	;?		turn <b>gr</b> centrat	een, orange or red, depending upon the ion.			
Car	bohydrates	are made of chains of	simple su	gars.		C. Describe the test for starch					
(							d <b>iodine</b> arch is	e. present, colour will change to <b>blue/black</b> .			

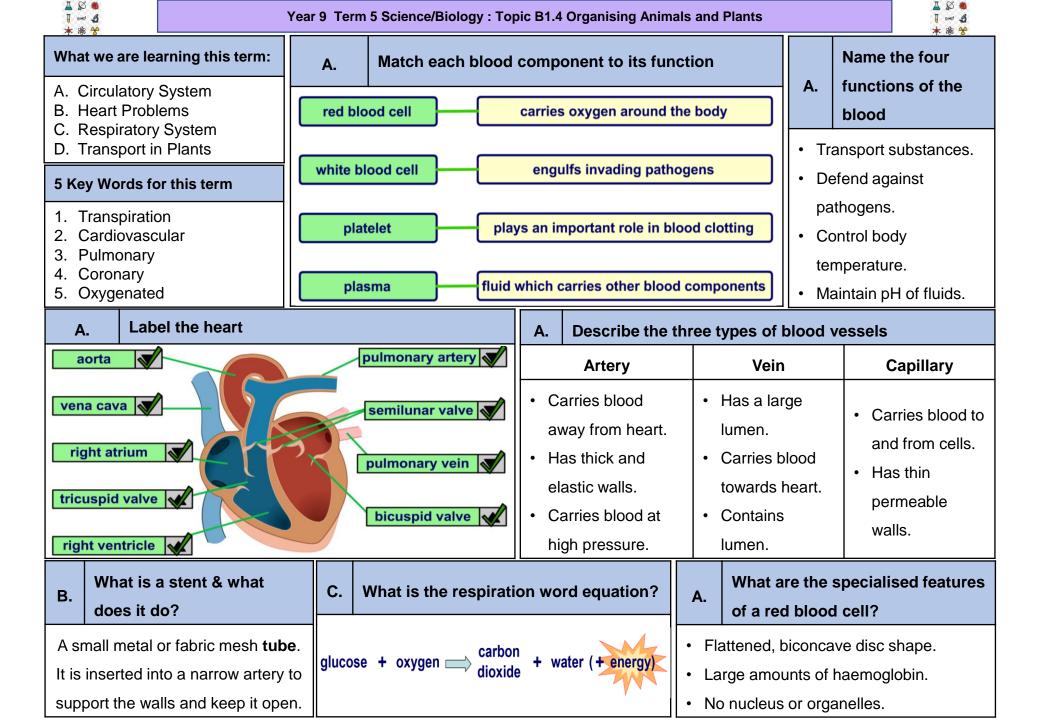


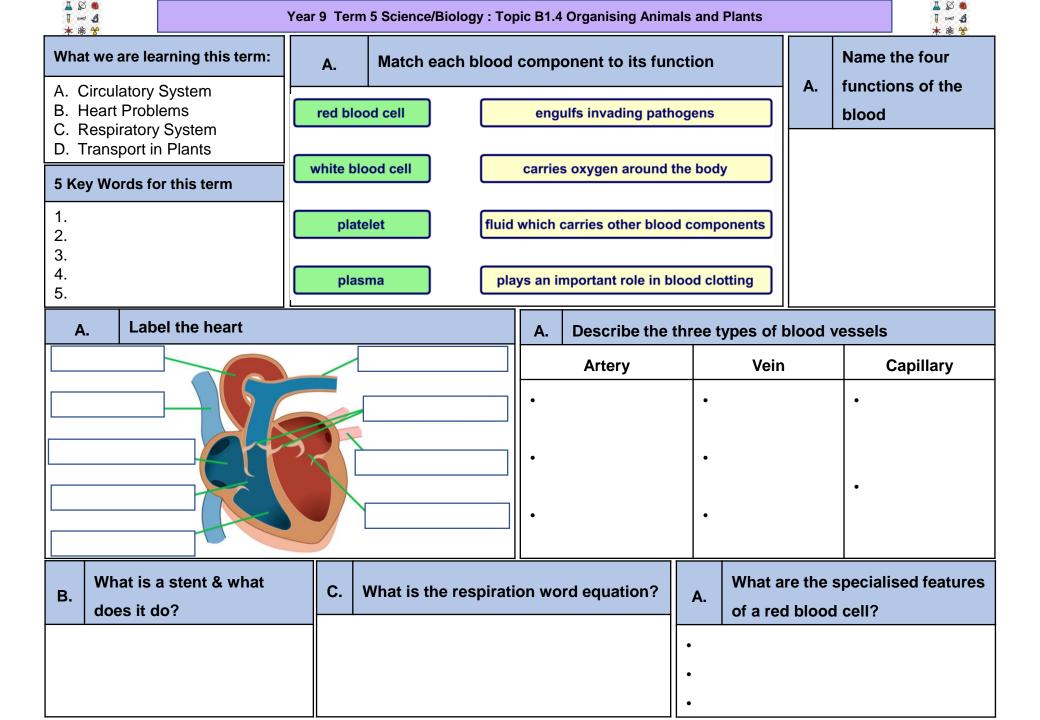
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Wha	at we are le	earning this term:	Α.	What is t	ction	of each	tissue?		
B. C C. E	Tissues Digestive or Biological m Enzymes		Epithelia Glandul Muscula	ar tissue					
В.	What is the system?	ne function of each p	art of the c	ligestive		В.	How a	re the small intestines adapted?	
	Liver								
Γ	Mouth								
Oes	ophagus								
	Large testine					C.	Where	is starch stored in plant cell?	
Gal	l bladder								
	Small testine								
						C.	Desc	cribe the test for sugars	
Pa	ancreas								
St	omach								
С.	C. Describe and draw the struc		ure of cark	oohydrates	?				
							C.	Describe the test for starch	

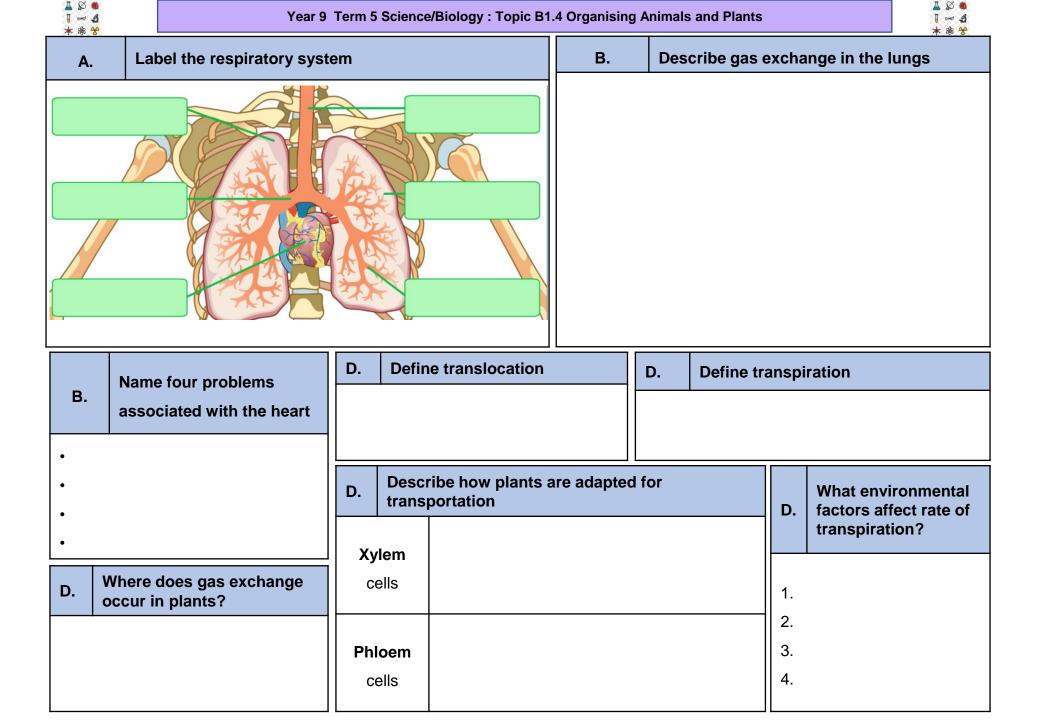
I w d I w d ★ ❀ ☆ Year 9 Term 5 Science/Biology : Topic B1.3 Organisation and the Digestive System												
С.		e and draw the e of proteins?	С		at are the func proteins?	tions	С.	Describe the test for proteins?				
mac	teins are de of chains <b>mino acid</b>	S His Gly Ser	2	<ol> <li>Structural</li> <li>Catalytic</li> <li>Signalling</li> <li>Immunological</li> </ol>			<ul> <li>Add Biuret's solution and mix gently into the food solution.</li> <li>If protein is present, the solution will turn pink/purple.</li> </ul>					
D.	Describe of enzym	the function les	С.			d draw the stru	cture	С.	Describe the test for lipids?			
	To <b>catalyse</b> reactions and Trigly				triglycerides? rides are glycerol			<ul> <li>Add Sudan III stain to the food solution.</li> <li>If a lipid is present, red-stained oil layer wi</li> </ul>				
D.	What factors affect				/ acids.				eparate and float to the surface.			
	Temperatur oH	re	D.		hat happens when an D.			Draw	/ the lock and key model			
4. S	<ul> <li>2. pH</li> <li>3. Enzyme concentration</li> <li>4. Substrate concentration</li> <li>5. Surface area</li> </ul>				nzyme <b>active site</b> no ts the substrate/reactant, eaction is not catalysed.			+				
C.							e	enzyme enzyme reactant enzyme				
	Protein Broken down by pep					mino acids		+ $\leftrightarrow$ complex $\leftrightarrow$ +				
Star Trig s	rch Ilyceride	Broken down by Broken down by	, <u>,</u>		e Into maltose Into glycerol and fatty acids			acian	t products			







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А.	Label the respiratory system	em		В.	Describe gas e	excha	ange in the lungs
	lung pronchus heart		in bloc 2. Oxyge haemo oxyha 3. Body o So car alveoli	od. en diffuses into bloc oglobin in red bloc emoglobin). cells release <b>carbo</b> bon dioxide concer	odstre od cel <b>n dic</b> ntratio	ls (forming <b>oxide</b> into blood <b>plasma</b> . on is higher in blood than	
В.	Name four problems associated with the heart	The movem	ne translocation ment of nutrients in requires energy.		D. Define tra		iration In the leaves of a plant.
• Ho • Da	egular heartbeat. le in the heart. maged valves.		ribe how plants a portation		I for	D.	What environmental factors affect rate of transpiration?
D.	ronary heart disease. Where does gas exchange occur in plants?	Xylem cells	from the roots to transport occurs	o the shoots	1. Light		
Found	e <b>stomata</b> . d on the underside of leaves, unded by <b>guard cells</b> .	Phloem cells	hloem and down the s		l in the leaves up wing and storage	3.	Temperature Humidity Wind



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What we are learning t		А.		ine communicable ease			Α.	Define non-co	mmun	icable d	isease	
<ul> <li>A. Communicable vs communicable</li> <li>B. Pathogens</li> <li>C. Preventing Infection</li> <li>D. Human Response</li> </ul>	on	Can be <b>passed</b> on <b>from person to</b> <b>person</b> , or from an animal to a person.				<b>Cannot be caught</b> from another person or an These include genetic diseases, diseases cause diet and lifestyle and diseases caused by aging.						
2 Key Words for this to	erm	в.	Wr	nat the four types o	of path	oge	ns?					
<ol> <li>Pathogen</li> <li>Antigen</li> </ol>	1. Pathogen					<u> </u>		nple in plants	В.	Define	vector	
A. Define health		;	HIV potentially lead	ing to A	IDS	DS Tobacco mosaic virus						
A state of complete	A state of complete mental,			Salmonella			Agrobacterium			Any organism that can		
physical and social being, and the abs		Fungi		Athlete's foot			Rose black spot			spread a disease i called a vector.		
disease or infirmity.		Protists	5	Malaria			Downy	mildew	Calle		л.	
B. How are patho	ogens sprea	ad		B. Define non-communicable disease								
Bodily fluids	IV, hepatitis					_	Г				_	
Food E.	.Coli, Salmo	nella		hea	d	┢		<b>A</b>	gene	tic mate	erial	
Contact At	thlete's foot,	cold sore	es			1	- L `					
Water Ty	/phoid, chole					$\wedge$						
Airborne droplets	olds, flu			tail					Dr	otein coa	at	
Insects Ty	/phus, malai	ria				. /	I <b>\</b>	pit				

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What	: we are lea	arning this term:	А.		fine communicable			А.	Define non-co	mmur	nicable di			
B. Pa C. P	ommunica ommunica athogens reventing uman Res	Infection		dis										
	y Words fo	r this term	w	hat the four types o	of patho	ogen	s?							
1. 2.			Pathog	jen	Example in an	imals		Exan	ple in plants	В.	Define	vector		
Α.	Define	health		HIV potentially leading to			IDS Tobacco mosaic virus							
					Salmonella			Agroba	cterium					
					Athlete's foot			Rose bl	ack spot					
				Malaria Downy milde					mildew					
В.	How are	e pathogens spre	ad		B. Define non-communicable disease									
		HIV, hepatitis					_	Г				_		
		E.Coli, Salmo	onella					- [						
		Athlete's foot,	cold sore	es			Г	L						
		Typhoid, chol												
		Colds, flu												
		Typhus, mala	ria											

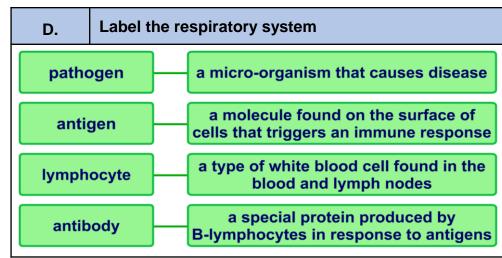




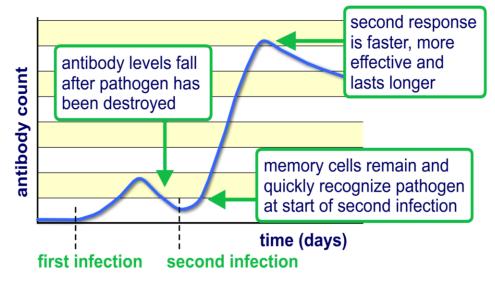
## C. List four methods of preventing infection

- · Handwashing.
- Sterilisation & antiseptics.
- Isolating infected individuals.
- Destroying or controlling vectors.
- Vaccines.

C.	What are	the two types of lymphocytes?
lym	T- phocytes	Recognize antigens and either attack them directly or co-ordinate the activity of other cells of the immune system.
lym	B- phocytes	Recognize antigens and produce special chemicals called antibodies.)



## Antibody count during two infections by the same pathogen



D.	What defen	are the body's physical and chemical ces?					
E	yes	Produce tears, which contain a natural antiseptic.					
S	kin	Forms an outer barrier to infection.					
Lu	ngs	Mucus and tiny called cilia in the airways trap and sweep out microbes					
Bl	ood	Cuts and wounds are sealed by platelets, which are transported in the blood plasma.					
Sto	mach	Hydrochloric acid destroys many microbes.					



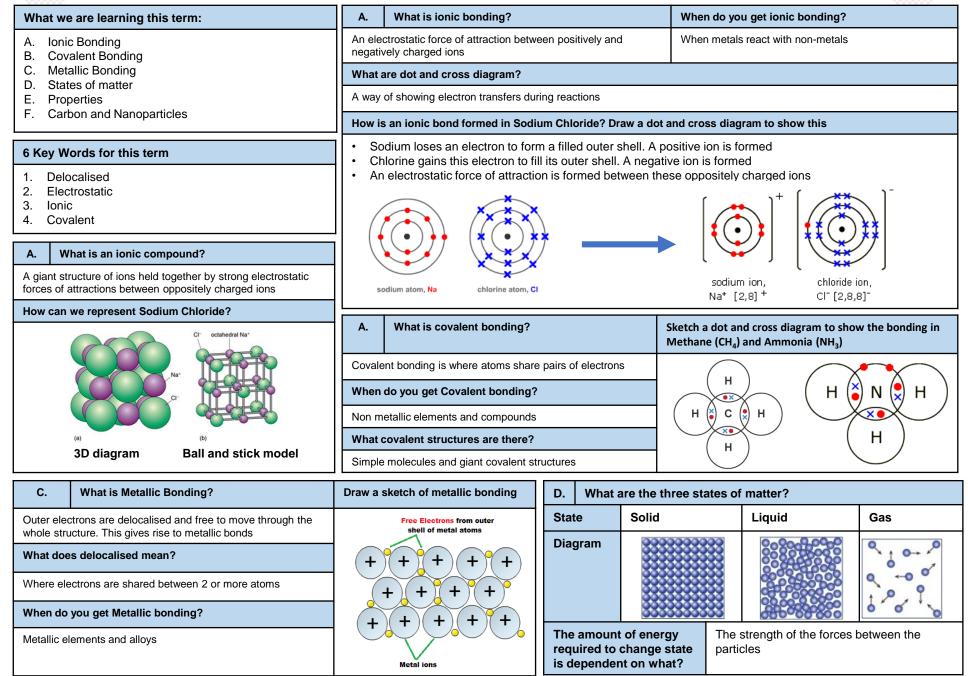
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C.	Lis	st four	r methods of preventing infection	Ant	tibo	dy co	ount dur	ing two infe	ctions by t	he same pathogen
• • •				antibody count		after	ody leve pathoge destroye	n has 🛛 🖊		second response is faster, more effective and lasts longer
<b>C</b> .	Wha	t are	the two types of lymphocytes?	antibo					quickly red	ells remain and cognize pathogen second infection
	Recognize antigens and either attack them directly or co-ordinate the activity of other cells of the immune system.					st infe	ection	second infe	time (days	
			Recognize antigens and produce special chemicals called antibodies.)			D.	What a defend		s physical	and chemical
[	<b>)</b> .	Labe	el the respiratory system			E	yes			
	antibo	ody	a special protein produced b B-lymphocytes in response to ant		s		kin			
I	pathogen a molecule found on the surface cells that triggers an immune re				e		ings			
	antigen a type of white blood cell found blood and lymph nodes		n the		BI	ood				
ly	lymphocyte a micro-organism that causes d			sease	•	Sto	mach			



#### Year 9 Term 5 Science - Chemistry : Topic C1.3 Structure and Bonding

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What we are learning this term:	A. What is ionic bonding?		When do you get ionic bonding?			
<ul> <li>A. Ionic Bonding</li> <li>B. Covalent Bonding</li> <li>C. Metallic Bonding</li> <li>D. States of matter</li> <li>E. Properties</li> <li>F. Carbon and Nanoparticles</li> </ul>	What are dot and cross diagram? How is an ionic bond formed in Sodiu	um Chloride? Draw a do	ot and cross diagram to show this			
6 Key Words for this term						
<ol> <li>Delocalised</li> <li>Electrostatic</li> <li>Ionic</li> <li>Covalent</li> </ol>						
A. What is an ionic compound?						
How can we represent Sodium Chloride?						
	A. What is covalent bonding?		Sketch a dot and cross diagram to sho Methane (CH <sub>4</sub> ) and Ammonia (NH <sub>3</sub> )	ow the bonding in		
3D diagram Ball and stick model	When do you get Covalent bonding? What covalent structures are there?					
	┛					
C. What is Metallic Bonding?	Draw a sketch of metallic bonding	D. What are the	three states of matter?	_		
		State				
What does delocalised mean?	-	Diagram				

	State			
does delocalised mean?	Diagram			
n do you get Metallic bonding?				
	The amount required to o is depender	change state		

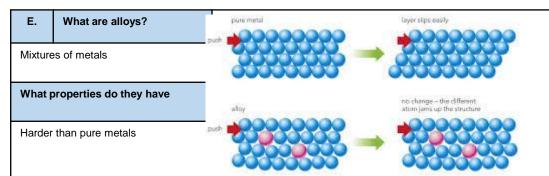


D.	What are state symbols?					
These are used in chemical equations to show what state of matter things are in a reaction						
Solid		(s)				
Liquid	(I)					
Gas	(g)					
Aqueous	(in solution)	(aq)				

E.	What properties do Giant ionic structures have?					
Melting points/boiling points High						
Does it conduct electricity?						
lonic so	lid	No				
Molten i	onic soild	Yes				
Ionic co	mpound in solution	Yes				

E.	What are poly	mers?	
Large	e long chain mo	lecules	
Are t cova	he ionic or lent?	Covalent	H H

Е.				What differen	t forms of carbon are t	here?			
	molecules hav				Graphite	Diamond	Graphene	Fullerenes	
because of intermolecu		Lower melting points – because of weak	Struc	ture	Hexagonal rings	Giant covalent	1 sheet of graphite	Giant covalent	
		intermolecular forces (not the covalent bonds)	Melting point		high	Very high	Very High	Very High	
Conc	luct	No – no overall charge		ucts electricity?	Yes	No	Yes	No	
elect	ricity?	city?		erties	soft	Very hard	hard	hard	
E.	E. What properties do giant covalent structures have?		Uses		Pencils, electrodes	Cutters, jewellery	Electronics, composites	Nanotechnology, electronics, medicine	
Melting point High		Diagi	ram	9 <del>8 9 8 9</del> 9 <del>9 9 9 9 9</del> 9 <del>9 9 9 9 9</del> 9 <del>9</del> 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		£5888888			
Solu	Solubility Insoluble due to strong covalent bonds				2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		888888		



F.	What are nanoparticles?			
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				



⊥ Ø ∰ I === **1** ★ ⊗ <del>%</del>

D.	What are state symbols?			E.	What properties do Giant ion have?	ic structures	Е.	What are poly	/mers?	
These are used in chemical equations to show what state of matter things are in a reaction		N	Melting points/boiling points							
Solid			D	Does it conduct electricity?						
Liquid			lo	lonic so	lid		Are t	he ionic or		
Gas			N	Molten i	ionic soild		cova			
Aqueous	s (in solution)		lo	Ionic co	mpound in solution					

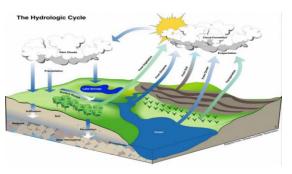
E.		es do simple small covalent	F.	What different	t forms of carbon are t	here?		
	molecules hav	/e <sup>·</sup> ?			Graphite	Diamond	Graphene	Fullerenes
Melti	ng point		Struct	ture				
			Meltir	ng point				
Conc			Conducts electricity?					
elect	electricity?		Properties					
E.	What propertie structures hav	es do giant covalent /e?	Uses					
Melti	ng point		Diagra	am	0000 0000 0000 0000 0000		£5888888	
Solu	bility				2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-		1888888	

E.	What are alloys?
What p	properties do they have

F.	What are nanoparticles?		
Why are they useful?			
What uses?			







#### The hydrological cycle A.

The hydrological cycle is a closed system. This means that water never leaves, or enters the cycle of water from sea, land and atmosphere. The cycle is important because it shows us how water can enter the drainage basin, and how water can be responsible for increasing or decreasing our risk of flooding. Key words include:

Evaporation	the process of water turning from a liquid in to water vapour as it is warmed.
Transpiration	Transpiration – the loss of water from trees and plants
Condensation	water vapour returning to a liquid once cooled.
Interception	water being trapped by tree leaves and plant leaves
Surface run off	water travelling <b>over</b> the land
Infiltration	water soaking into the soil
Throughflow	water flowing downhill in the soil
Percolation	water passing vertically through soil and rock
Groundwater flow	water flowing vertically through rock.
Channel flow	water flowing in a river channel
Channel storage	water being stored in the river

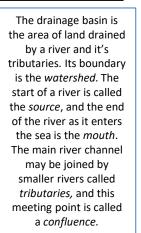
#### What are we learning this term

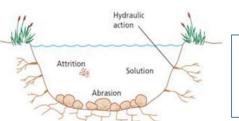
- The Hydrological cycle Α.
- В. Drainage basins
- C. Factors influencing the hydrological cycle
- D. Key terms



Some factors will influence the way that water travels to the river - see below.

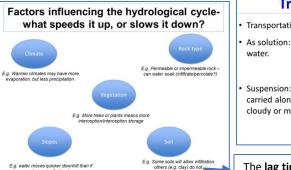
there was flat land



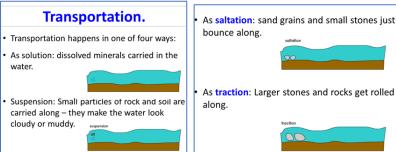


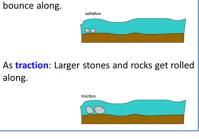


D	Key terms			
Attrition		is the 'smashing' of sediment against each other to become more rounded.		
Hydrau	lic action	is the sheer force of the water breaking down the river banks and bed.		
Corrosion (solution)		is the dissolving of material.		
Abrasion (corasion)		is the action of sediment scraping against the bed and bank of the river (like sandpaper		

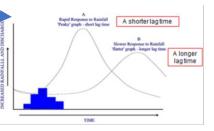


Hydrographs are a method to show us the relationship between rainfall and discharge (the amount of water in the river at a given time). Hydrographs can help us to predict the risk of flooding, but also can help us to understand how water has made it's way the river...





The **lag time** of a hydrograph is the time between the peak rainfall and the peak discharge. If this is long (e.g. b) then it means water will have infiltrated rather than moved through surface run off, as surface run off would cause water to enter the river quickly, and so our hydrograph would have a shorter lag time (e.g. a).





#### Geography Knowledge Organiser: Year 9 Term 5 Rivers



E	Reducing floo	ding		(a) Sedemons depended (b) Enclosed Encl		The river is 85 miles	
	Rivers floor	ding can be caused by a number of factors.		Cop behave     Incolor of     Lacks on     Acceleration     Symposium     Symposium     Symposium     Symposium     Symposium     Symposium     Symposium     Symposium     Symposium		long, and drains an	
		These could be human factors:				area of 710 square	
Farming		ploughing can cause water to collect in the ti	roughs and	Coll pair of the second		miles. Its source is in the Pennine hills, and	
		run directly in to the river.		braks mercipse weeks in Rode		flows in to the North	
Urbanisation	<u></u>	building with tarmac and concrete does not	allow	Abactioner metationer obserview		Sea at Middlesbrough.	
orbanisation		infiltration so water moves to the river through		A meander is a bend in a river. Erosion	happens		
		run off, or might sit on the land.		on the outside of the bend as the velo	ocity is	Upper course: The	
Deforestation		cutting down trees will reduce interception s	torage and	faster. Deposition happens on the insid bend as velocity is slowest. This means		upper course of the	
		increase surface run off.	0	over time become an oxbow lake as ere		river has impressive waterfalls. The river	
Or physical f	factors:	Or physical factors:		the outside of the bend exaggerates th and when the river floods, water might			
				quickest route – therefore cutting off th		drops 20m in a single sheet of water – High	
Weather and	d climate:	hotter weather increases evaporation which decrease the amount of discharge. Colder we				Force Waterfall (tallest	
		cause more surface run off as frozen ground		Formation of Natural L	evees	in England). The	
		infiltrate water.		(a) Before flood		waterfall has retreated back overtime to form a	
High amoun	ts of rainfall	saturated ground will not infiltrate further ra	infall, which	Flood-stage water level		gorge. There are high v-	
Ŭ		increases surface run off, and therefore the o		(b) During flood		shaped valleys, and	
		the river.		Thickest and coarsest sediments deposited at channel edges parts of floodplain	ments uter 1	interlocking spurs in the	
Steep land		steep land increases surface run off and ther	efore the	Natural levees built up by many floods		upper course of the	
		discharge in the river		(c) After many floods	and a second	river.	
	ve tracks the journey e that the river starts	of a river from source	The waterfall retreat back upstream to create a gorge				
meets the sea	on flat land. The feat	ures of a river will		A waterfall will form when bands of h Over time the hard (more resistant) re		•	
	ource to mouth. This i of material. Typically	is due to erosion and larger material is		rock will be eroded vertically. This c	reates a plui	nge pool – and overtime the	
found in the up	oper course of a river, as it makes it way to	, and the material Aplunge pool forms. The over	rhang Collapsed P is as it is rocks used as p	vevious waterfall will retreat b	ackwards cr	eating a gorge.	
	m vertical (downward		ed by erosion abrasive w athering, and is erosion tools lown by gravity	velerfal	~	What has been done to re	
erosion.				Banbury Floods:	- A3	61 raised, and drainage belo	
River floo	ding might bring a	lot of effects to an area. They are worse in LICs as			$ \rightarrow $	Earth embankme	
		s are unable to prepare, or protect.	Banbury is	located in the Cotswolds, north of		<ul> <li>Floodwalls k</li> <li>Pumping station to trans</li> </ul>	
	These impacts cai	n be social, economic or environmental.	,	Oxford.	Creat	ion of new Biodiversity Actio	
Social: los		Economic: Cost	L	7		'soak' up exces	
homes, death, los	A DECEMBER OF STREET	of repairs, loss of income from		Impacts of flooding:		What were the costs	
possessio	A Bar And	flooded		flooding led to the closure of the		quality of life has improved, poding, the A361 will no long	
etc.		farmland, loss of business,		tion, local roads and caused £12.5m		cally: Cost £18.5m, but bene	
		loss of jobs etc.	-	lore than 150 homes and businesses ected. In 2007 these impacts were		£100m!	
	1000 100		were and		Environn	nentally: Small reservoir cre	



35 miles ains an square irce is in hills, and ne North sbrough.

Middle/lower course:

There are good examples of meanders, levees and floodplains along the River Tees. The natural levees have built up over time as the river floods and sediment is deposited on the banks of the river. There are large industries in the lower course of the river, making the most of the flat land and river's flow in to the North Sea. This area of the river needs high levels of management. In Yarn there are extensive flood protection methods.

The river has been straightened and widened over time to allow navigation for industry and trade.

#### done to reduce flooding?

- ainage below the road improved.
  - embankments built.
    - loodwalls built.
  - on to transfer excess water.
- versity Action Plan to allow nature to

#### k' up excess water.

#### e the costs/benefits?

improved, reduced levels of anxiety will no longer need to be closed. n, but benefits of protecting are over £100m!

Environmentally: Small reservoir created from earth taken for embankments, new Biodiversity Action Plan has created new habitats, and floodplain protected for flooding.

Environmental: Damaged habitats, destroyed land, contaminated water sources etc.



Α.

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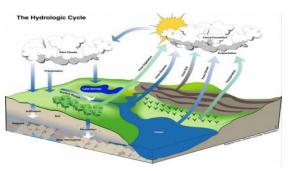
E.g. Permeable or impermeable rock – can water soak (infiltrate/percolate?)

E.g. Some soils will allow infiltration others (e.g. clay) do not.



A longer lagtime

Erocion in a



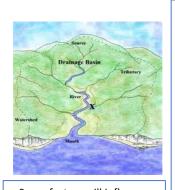
#### The hydrological cycle

The hydrological cycle is a closed system. This means that water never leaves, or enters the cycle of water from sea, land and atmosphere. The cycle is important because it shows us how water can enter the drainage basin, and how water can be responsible for increasing or decreasing our risk of flooding. Key words include:

Evaporation	
Transpiration	
Condensation	
Interception	
Surface run off	
Infiltration	
Throughflow	
Percolation	
Groundwater flow	
Channel flow	
Channel storage	

#### What are we learning this term

- A. The Hydrological cycle
- B. Drainage basins
- C. Factors influencing the hydrological cycle
- D. Key terms



Some factors will influence the way that water travels to the river – see below.

E.g. Warmer climates may have more evaporation, but less precipitation.

E.g. water moves quicker downhill than if there was flat land.

Hydrographs are

Factors influencing the hydrological cyclewhat speeds it up, or slows it down?

> E.g. More trees or plants means more interception/interception storage

The drainage basin is the								
		•						
		.						
		.						
		-						
		-						
		•						

Corrosion

(solution)

Abrasion

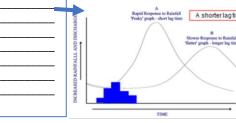
(corasion)

ATK IN	Attrition Abra	Solution Sion	river has a number of different forms.
D	Key terms		
Attritio	n		
Hydrau	lic action		

Hydraulic

action

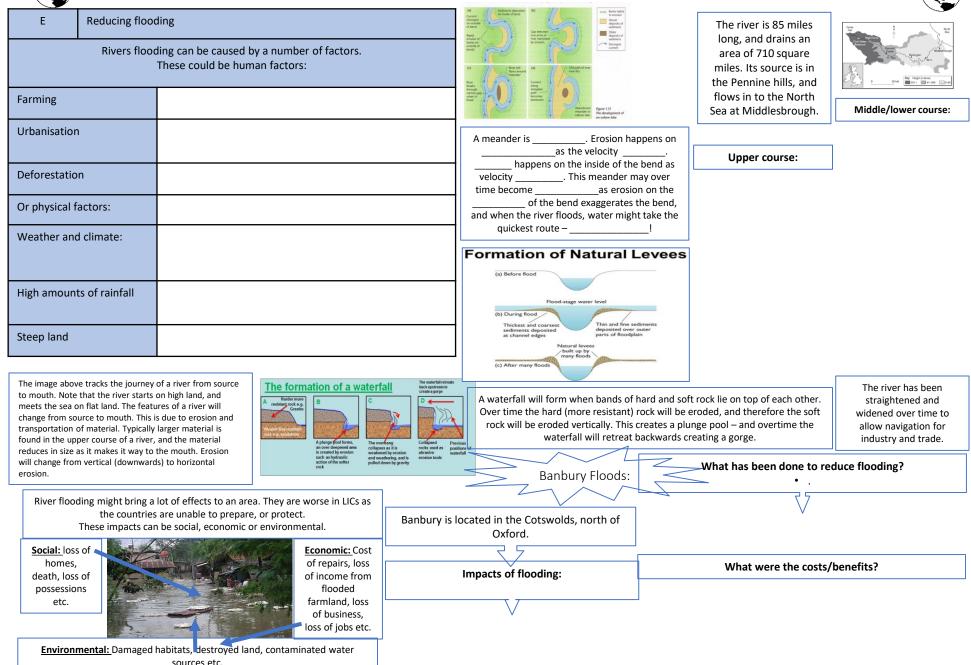
Transportation.	<ul> <li>As saltation: sand grains and small stones just</li> </ul>
<ul> <li>Transportation happens in one of four ways:</li> <li>As solution: dissolved minerals carried in the water.</li> <li>Suspension: Small particles of rock and soil are carried along – they make the water look cloudy or muddy.</li> </ul>	<ul> <li>bounce along.</li> <li>• As traction: Larger stones and rocks get rolled along.</li> </ul>
The <b>lag time</b> of a hydrograph is	Ropel Roopens to Rainfall A shorter lag time
	Teaky graph - short lag time A SHORTER 149 UTTE





#### Geography Knowledge Organiser: Year 9 Term 5 Rivers - quizzable





#### What we are learning this term:

- 1.1 Ideas about the cause of disease and illness1.2 Approaches to treatment and prevention1.3 Dealing with the Black Death 1348-49

C.	Dealing with the Black Death
What is the Black Death?	<ul> <li>Bubonic plague – outbreak in 1348-9 – 1/3<sup>rd</sup> to 1 / 2 of the population died in England. Caused by bacteria Yersinia pestis that was thought to have originated in China and came to Britain on fleas, on rats on ships.</li> </ul>
Causes	Miasma – bad air from the filthy conditions making you ill. Astrology – there was a weird alinement of Jupiter, mars and Saturn the previous year which was blamed for the plague Punishment from God- = People thought that society had become wicked so God had sent the plague to punish them.
Treatmen ts	Confesses sins and pray, bleeding and purging (but seemed to make worse), sweet herbs or fire to clean air.
Preventio n	Pray and fast, leave the area, carry sweet herbs, quarantine (new people stay away for 40 days), clean streets (or don't, maybe bad smell will drive out miasma)

#### Year 9 History : Medicine in Medieval England c1250-1500

	Hippocrates	Galen	Physicians, apothecaries and surgeons	Hospitals
e) – 1/3 <sup>rd</sup> gland. h at was and hips. r tons i of ear which f	'Father of Medicine' – 4 humours, clinical observation (watch and record details, use this to help with future cases), importance of exercise, Hippocratic Oath for doctors (to preserve life)	Built on Hippocrates' ideas – theory of opposites (if cold, give something hot), also dissected animals to find out about anatomy (structure of body). Proved brain, not the heart, controls the body	<ul> <li>Physicians – diagnosed + recommended treatment, trained at university for around 7 years. Did not get to see dissections so new little about body. Learned everything from Galen's books. Only for super rich</li> <li>Apothecaries – mixed herbal remedies (joined a guild, worked for master to train).</li> <li>Surgeons – least qualified, also cut hair. Learned on job and only performed minor, on-invasive surgeries</li> <li>Monks and nuns – worked in hospitals mostly prayed for patients and gave comfort. Not allowed to cut or bleed patients so could not do surgery</li> <li>Housewives and mothers – treated most people. Mixed herbal remedies and treated minor wounds</li> </ul>	<ul> <li>Ran by monks and nuns</li> <li>Offered patients shelter, beds, food and very limited treatment.</li> <li>Treatments mostly religious based – praying</li> <li>Patients would offer share beds which led to allot of diseases spreading around the hospitals</li> </ul>

Α.	Can you define these key words?	What were the causes of disease in		
		Causes	Prevention	Treatments
Miasma	Bad air that was believed to be filled with harmful fumes.	Religious – Punishment from God God has sent an illness as punishment for sins.	<b>Religious - Church</b> – Lead a life free of sin.	Religious – Healing prayers and
Quarantine	Separating the sick from the healthy to stop the spread of a disease.	Especially true at times of panic such as the Black Death.	Regular prayers and confessions. Offering tithes to the church to make sure sins were	incantations Paying for a special mass to be said Fasting
Humours	The humours were four fluids that were thought to spread throughout the body and influence its health.	Rational - Miasma – You had breathed in bad air. This was thought to come from swamps or rubbish. During this period there	forgiven quickly.          Rational and religious       -         Regimen Sanitatis       -       A       set         of instructions       provided       by	Pilgrimages Supernatural - Astrology – Treatments varied according the the
Purging	To get rid of anything unwanted.	was allot of animal much in towns and often open sewers in the streets meaning the whole place stank. In these filthy places disease was more common seemingly	physicians to maintain good health. Bathing was also used to prevent miasma.	horoscope of the patient. The alignment of the planets was checked at every stage of the
Phlebotmey	The drawing of bloody by opening a vein.	proving this theory	prevent miasma.	treatment prescribed eg herb gathering.
Leprosy	a painful skin disease	Rational - The Theory of the Four Humors – The 4 liquids in your body (blood, yellow bile, black bile, phlegm) were seen to be out of balance making you ill. Recovery came	Rational - Diet – Eating to much was strongly discouraged. What and when you ate were considered to	<b>Rational - Humoral</b> Treatments – Blood letting – Bad humours could be removed from
Prevention	To stop something from happening	from getting them back in to balance through the theory of opposites Created in ancient	be important in preventing a humoural imbalance.	the body by removing some of the blood.
Treatment	giving medicine or using other means to help a person get better when sick or hurt	Greece by Hippocrates.		Purging – Purging the digestive system to remove any leftover
Apothecary	A person who mixes herbal remedies and treated patients as an alternative to a doctor as they were cheaper.	Supernatural - Astrology – Impact of the	Rational - Purifying the air	food. Eg using a laxative. Rational - Herbal
Barber surgeon	Barbers and surgeons who also performed minor operations such as removal of warts .	stars and planets on health. Physicians would use star charts to examine a patient and work out what was wrong with them.	-This was achieved by spreading sweet herbs.	<b>remedies</b> – Using herbal infusions to drink, sniff or bathe in.

What we are	learning this term:	Year 10 History : Medicine in Medieval England c1250-1500							
1.2 Approac	oout the cause of disease and illness hes to treatment and prevention with the Black Death 1348-49	Key People							
C.	Dealing with the Black Death	Hippocrates	Galen	Physicians, apoth	ecaries and surgeons	Hospitals			
What is the Black Death?									
Causes									
Treatmen ts									
Preventio n									

A.	Can you define these key words?	What were the causes of disease in		
		<u>Causes</u>	Prevention	Treatments
Miasma				
Quarantine				
Humours				
Duraina				
Purging				
Phlebotmey				
Leprosy				
Prevention				
Treatment				
Apothecary				
Barber surgeon				
surgeon				

Α.	Ca	an you define thes	e key words?	Year 9 Religious Education: Matters of Life and Death What we are exploring this term: situation ethics, natural moral law, abortion, euthanasia, death penalty									
Key w	<u>vord</u>	Key definition		в	Natural moral law - Aquinas				Jos	Joseph Fletcher – Situation Ethics			
Subje Objec Natura moral	tive al	opinions Dealing with facts personal beliefs of The view there a	al beliefs, feelings or s, not influenced by or feelings re universal moral e inherent in humankind		<ul> <li>God made truths and rules about what is right and wrong e.g. the 10 commandments</li> <li>Everything in existence has a purpose so moral behaviour fits in with this</li> <li>The 5 primary precepts</li> <li>5 of the most important rules which we must stick to in order to be good and overcome evil         <ul> <li>Preserve innocent life</li> <li>Reproduce</li> <li>Educate children</li> <li>Live in an ordered society</li> <li>Worship God</li> </ul> </li> <li>Secondary precepts can be determined from the 5 primary ones</li> </ul>				<ul> <li>Right and wrong depends on the situation</li> <li>No universal rules</li> <li>Based on agape – unconditional love</li> <li>Based on Jesus – "love thy neighbour"</li> <li>Every moral action is based on what would be the most loving and</li> </ul>				
Prima	ry	preserve life	s for humans. E.g.					S	Situa	compassionate thing to do ation Ethics strengths	Situation ethics weaknesses		
Secor prece		precepts	Illow to keep the primary					pe ∙ Iti ao		It is personal – sensitive to a person's circumstances       • It isn't clear what 'love' means may be different for different p         It is particular – moral decisions on a case by case basis       • It is difficult to implement			
Abo		eliberate ending of a	a pregnancy		They are rules that must be followed e.g innocent life	., do not kill keeps the precept of preserve		Ĺ	th	It is based on doing good – teaches that right acts are motivated by the wish to promote well-being of	slippery slope Using 'love' to do unloving things		
rtio n	• Re	easons • Living in p	overtv	в	Natural law strengths	Natural law weaknesses		E		Sanctity of life and quality of life	Ð		
		Low quality impact on health of the support of	ty of life physical or mental mother and child rt system Arguments against		<ul> <li>We can use reason to determine it</li> <li>It is very adaptable – you can break one precept to keep another</li> <li>Leads to moral outcomes</li> </ul>	<ul> <li>It doesn't work in practice due to conflicting precepts</li> <li>If you do not believe in God then there is no God given purpose to fulfil</li> <li>Not all people share a common nature</li> <li>Does not help if you have</li> </ul>	S. y	ancti	tit	(Genesis)			
	rig it i: • In	oman has the ght to choose as is her body the case of rape would be lacking	<ul> <li>Roman Catholics believe life begins at conception</li> <li>Abortion in the case of rape is still</li> </ul>	F	Euthanasia	conflicting secondary precepts		Cuality     C					
	in	compassion to ot allow it	wrong – "the son shall not bear the	E	nding a person's life due to suffering or a te	erminal illness to end their suffering		Conif	ital n	Punishment	st important		
	• W	oman may be o young or have	guilt of the father"	A	gree	Disagree				erson's life as a punishment for a cri	me		
	со	ommitments	<ul> <li>Everyone has the right to live and</li> </ul>	├.	Quality of life may have been	Some people unexpectedly recover	Agr	ree	•		Disagree		
	he are of Qu wo aff C in co ve	regnant woman's saith and welfare e more uportant that that the foetus uality of life of oman can be fected by birth <b>Clothe yourself</b> ompassion"/"Io a thy sighbour"	<ul> <li>right to live and reach their potential</li> <li>There are alternatives e.g. abortion</li> <li>Destroys human life and makes life appear cheap and disposable – impacts the quality and value of life</li> <li>People born with disabilities can live full and happy lives</li> <li>Goes against sanctity of life</li> </ul>	· · · · · · · · · · · · · · · · · · ·	Human beings have free will Human beings have free will Humans can decide when and how to die Enables someone to die with dignity Death is a private matter and state should not be involved It is expensive to keep someone alive – funds and resources could be used to help someone who could live Family and friends would be spared the pain of seeing their loved one suffer	<ul> <li>Discourage the search for new cures for terminal illnesses</li> <li>Palliative care is available</li> <li>Goes against sanctity of life – God made humans in his image</li> <li>Undermines commitment of doctors and nurses</li> <li>Weaken society's respect for the value and importance of human life</li> </ul>	• • • • •	Agree      "Whoever sheds human blood, by humans shall their blood be shed"     "Life for life"     "Protect the weak and needy"     People will be deterred from committing the same crime     It can be expensive to keep a prisoner in prison for the rest of their life     Brings justice to the victims of the family     Protect other people in society from dangerous individuals		ns shall their blood be shed" or life" ext the weak and needy" ext the weak and needy" e will be deterred from tting the same crime be expensive to keep a prisoner on for the rest of their life justice to the victims of the t other people in society from	<ul> <li>Goes against the teaching of the sanctity of life</li> <li>The Bible says "thou shall not kill"</li> <li>Sometimes an innocent person may be put to death when they shouldn't be</li> <li>Love thy neighbour</li> <li>Clothe yourself in compassion</li> <li>Jesus said that we should forgive 7x70</li> </ul>		

A. (		Can you define these	e key words?		Year 9 Religious	s Education: Matters of Lif	e and Dea	ith		What we are exploring this term: situation ethics, natural moral law, abortion, euthanasia, death penalty					
		Key definition		в	Natural moral law - Aquinas			С	C Joseph Fletcher – Situation Ethics						
Subjec	tive														
Objective															
Natural moral law															
Primary precepts								D	Situation Ethics streng	<b>ths</b>	Situation ethics weaknesses				
Secon precep															
F	Abort	tion													
Abo				в	Natural law strengths	Natural law weaknesses									
rtion								I	E Sanctity of life a	and quality of lif	fe				
								San	ctit						
								у							
	Argum	nents for	Arguments against												
				FI	Euthanasia										
				En	nding a person's life due to suffering or a ter	erminal illness to end their suffering									
					jree	Disagree			lity						
								G Ca	pital punishment						
								Endin	g a person's life as a pur	hishment for a cri	me				
								Agree	9		Disagree				

**i** 

## SPANISH Year 9 FCSE Term 5 Knowledge Organiser: Topic = holidays

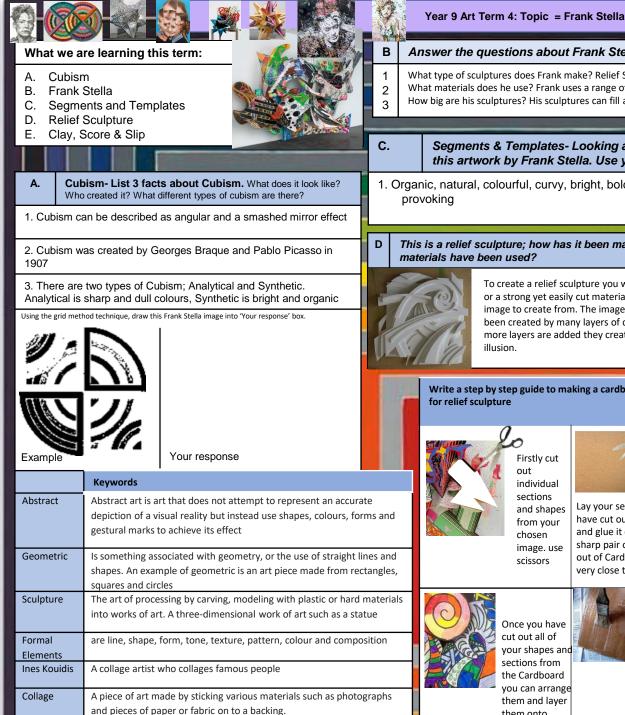
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					<u> </u>							2002	
What we are learning	this term:	В. (	Countries					Key Ve	rbs				
<ul><li>A. Food opinions</li><li>B. Countries</li><li>C. Hotel</li></ul>		Una parcela Una piscina	<u>Ser</u> <u>To be</u>	Tener To ha		Present	Pas	t	Future				
D. Transport E. Weather F. Places		Pasaporte Servicio Una caravana	Passport toilet a caravan		Soy = I am	Tengo = I hav		Hablo I speak	Hab I sp	-	Voy a H I am go	lablar ing to speak	
G. Key verbs H. adjectives		Una tienda	a tent/sho	р	Eres = You are	Tienes = You		Como I eat		ní e	Voy a c I am go	omer ing to eat	
6 Key Words for this term		і с.	Hotel		Es = s/he is	Tiene = s/he		Voy I go	· ·	′fue n/it was	Voyai Iamgo	r ing to go	
<ol> <li>La ensalada</li> <li>El balcónn</li> <li>El pasaporte</li> </ol>	La ensalada 4. Cama El balcónn 5. Ciudad La habitación El pasaporte 6.Nieva Balcón		Room Balcor Bath	ıy	Somos = We are	Tener	nos	Soy I am	Fui I was		Voy a s		
A.Food el agua	A.Food opinions Bath Ducha Shower Cama Bed				Son = They are	Tiener = The		Tengo I have	Tuv I ha	-	Voy a t I am go	ener ing to have	
el agua con gas el arroz	ua con gas fizzy water Una noche A night				•	F. P	laces		1		G. Key verbs		
el bistec el bocadillo la carne los champiñones las cerezas el coca cola el cerdo el carne de vaca los caramelos el chocolate los cereales la ensalada los espaguetis la fruta las galletas las hamburguesas el helado los huevos los guisantes	steak sandwich meat mushrooms cherries coke pork beef sweets chocolate cereals salad pasta fruit biscuits burgers ice cream eggs peas	Una semana Reservar Vistas al mar Quisiera Media pensión Pensión completa	A wee To res Views I woul Half b Full bo	serve of the sea Id like board	Iglesia Piscina Castillo Estadio Pueblo Ciudad El campo Las montaña En la costa Cerca de la Al extranjei Pista de hiel El restaurar El bar El hotel El viaje Vacaciones	playa °o o	church pool castle stadium town city the countr the mountr on the coa near the b Abroad ice rink teh restau the pub the hotel trip holidays	ains ist beach		vivir hablar deber querer visitar comer beber salir leer trabaja pensar escribi	to think		
el jamón la lechuga la limonada la manzana el melocotón los mariscos la naranja el pescado el perrito caliente el pan el pollo las patatas fritas los pasteles	jamón ham lechuga lettuce limonada lemonade manzana apple melocotón peach s mariscos seafood naranja orange pescado fish perrito caliente hot dogs pan bread pollo chicken s patatas fritas chips		iempo – it's bad weather it's sunny it's raining			Pintores Elegante Bonito Hermoso Rapido Comodo Caro Barato Practico Que Me Agradab	o da m	iedo	pictu Smar prett fast comfy exper chear pract scary Nice clean	y y nsive ical			

**i 1**11

## SPANISH Year 9 FCSE Term 5 Knowledge Organiser: Topic = holidays-QUIZABLE

2002								2002
What we are learning	y this term:	B. Cou	ntries			Key V	erbs	
<ul><li>A. Food opinions</li><li>B. Countries</li><li>C. Hotel</li><li>D. Transport</li></ul>		Una parcela a p	pool ssport	Ser To be	Tener To have	Present	<u>Past</u>	Future
<ul><li>E. Weather</li><li>F. Places</li><li>G. Key verbs</li></ul>			caravan tent/shop	= I am	= I have Tienes	l speak	l spoke	I am going to speak
H. adjectives				= You are	= You have	leat	late	I am going to eat
6 Key Words for this	1	C. Hot	tel	= s/he is	= s/he has	l go	I am/it was	I am going to go
1. La ensalada     2. El balcónn     3. El pasaporte	4. Cama 5. Ciudad 6.Nieva	]	Room Balcony Bath	= We are	= We have	l am	l was	I am going to be
	opinions water		Shower Bed Bathroom	= They are	Tienen = They have	 I have	 I had	I am going to have
el agua con gas	rice	Una noche Una cama de matrimonio			F. Places			G. Key verbs
el bistec el bocadillo los champiñones las cerezas el cerdo el carne de vaca 	istec		Cerca de la pla Al extranjero Pista de hielo	ya	e um countryside nountains e coast  estaurant ub lotel		to live       to speak       to have to       to want to       to visit       to eat       to drink       to go out       to work       to think       to write	
la lechuga la limonada el melocotón los mariscos la naranja el pescado el perrito caliente el pan el pollo las patatas fritas los pasteles	ham  apple  	D. Transportby carby coaby traby planby bikon boa	ich in ne eHace viento	it's it's it's it's	good weather bad weather sunny raining hot cold			Smart pretty pretty fast comfy expensive cheap practical scary Nice clean



#### Answer the questions about Frank Stella

- What type of sculptures does Frank make? Relief Sculptures
  - 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.

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

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

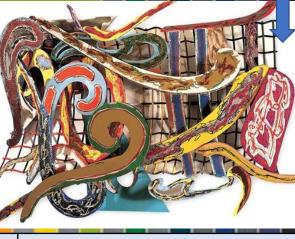
Firstly cut out individual sections and shapes from your

chosen image. use scissors

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

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

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

Е

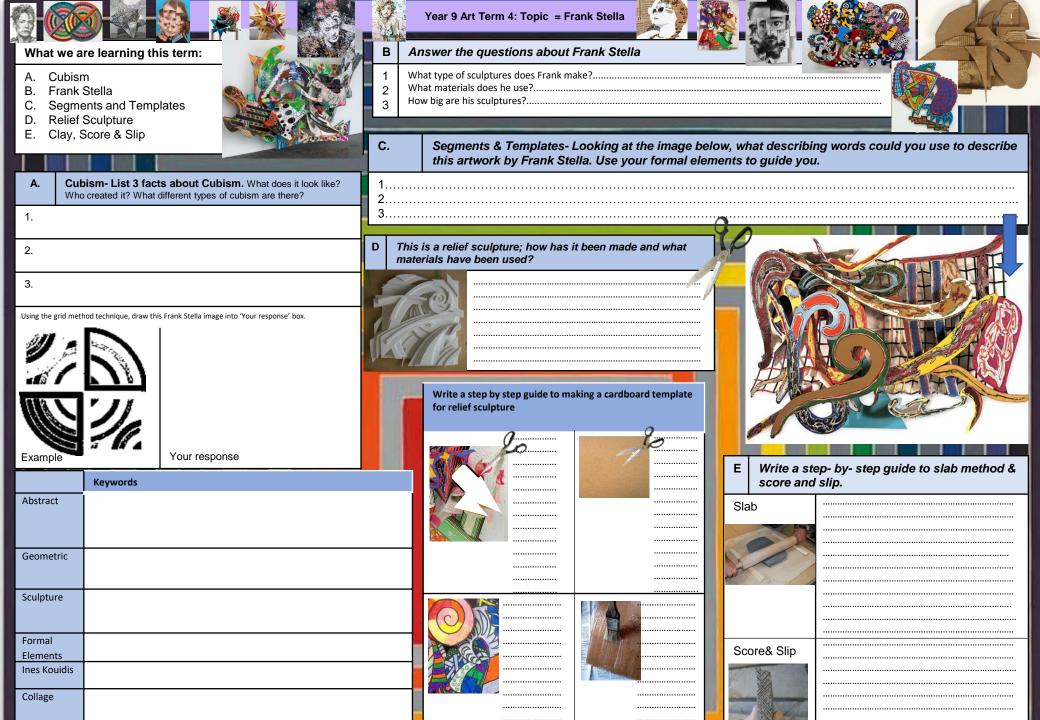


Score& Slip

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.

Firstly, start off by having your wooden

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





### Year 9 PRODUCT DESIGN Term 5

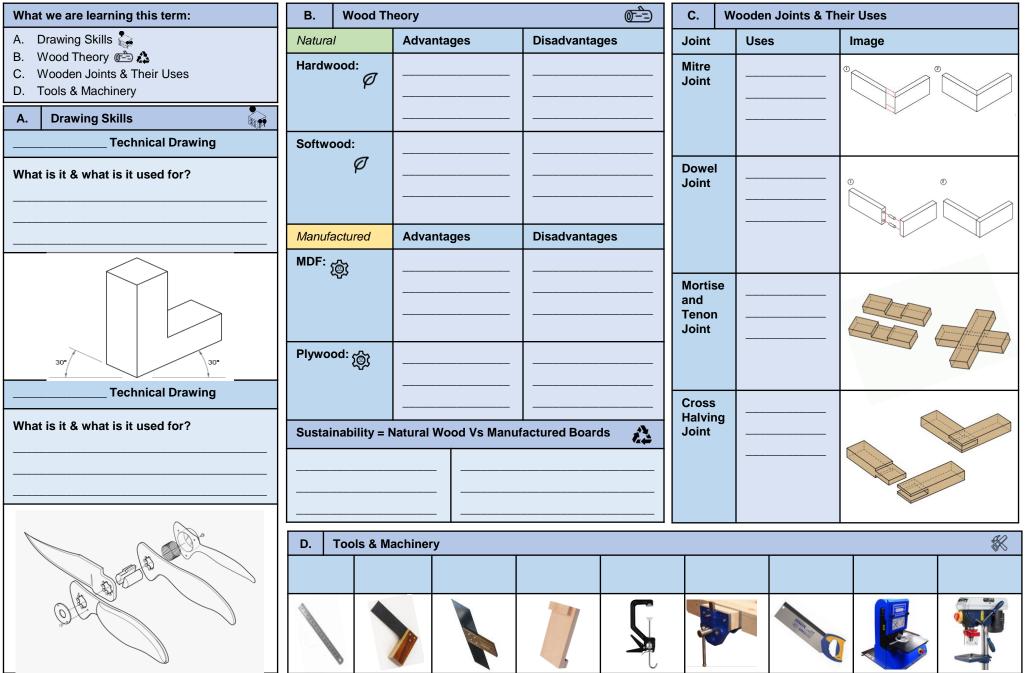


						<u> </u>		<b>—</b>				$\vee$
What we are learning this term:	B. V	Nood The	ory			0	C.	Wo	oden Joi	ints & Thei	ir Uses	
A. Drawing Skills	Natural		Advant	tages	Disadvanta	ges	Joir	nt 📗	Uses		Image	
<ul> <li>B. Wood Theory 2 A</li> <li>C. Wooden Joints &amp; Their Uses</li> <li>D. Tools &amp; Machinery</li> </ul> A. Drawing Skills	Hardwoo	Ø	<ul> <li>dura</li> <li>Wea resis</li> <li>Fire</li> </ul>	onger & able ather stant resistant y to cut /	Harder to curve     More exp     Longer to     Not weat	pensive o grow	Mitr Joir	it	Used mainly for picture frames. Great aesthetics but not very strong unless a dowel is added.			
Isometric Technical Drawing Made up of a series of par parallel vertical lines and parallel 30-degree lines. But no horizontal lines.		Ø	curve • Cheaper • Quicker to grow		<ul> <li>Not weat</li> <li>resistant</li> <li>Not fire re</li> <li>Weaker &amp; durable</li> </ul>	esistant	Dow Joir	nt repair stripped screw holes and in toy making		ripped les and aking	3	©
	Manufact	tured	Advant	tages	Disadvanta	ges			they are t perfect as		*	
	MDF:	}	<ul> <li>Easy to cut and sand</li> <li>Takes paint well</li> </ul>			ally	Mor		toy vehicles. Mainly used for furniture. This			
30"			shee		Doesn't s	stain well		Tenon join Joint stro		ture. This is very ng and ble as well		
Used to show a 3D (3-dimensional) perspective of a object or product. Exploded Technical Drawing	Plywood	愈	<ul> <li>Can wate</li> </ul>	ong board o be erproof nes in wide	<ul> <li>Not as aesthetically pleasing</li> <li>Doesn't stain well</li> </ul>				as looking very professional.			
			shee	ets			Cross Halving					
Isometric drawing of all the parts and components of an object.	Sustaina	bility = Na	atural W	lood Vs Manu	factured Board	ds 🚵		Joint and		lows.		
	more sus natural we	ured board tainable th oods beca m wasted v ts.	ian iuse		s more sustaina because it grov				This joint has very good resistance to side-to-side movement.			
	D. To	ools & Mac	chinery									<i>≸</i> €
Carried 1	Steel Rule	Tri Squ		Mitre Square	Bench Hook	Quick Clamp		ooden ce	Те	enon Saw	Bandfacer	Pillar Drill
All parts are shown separately so you can see all aspects. Dashed lines indicate where everything goes and in what order.						S				No. Co		

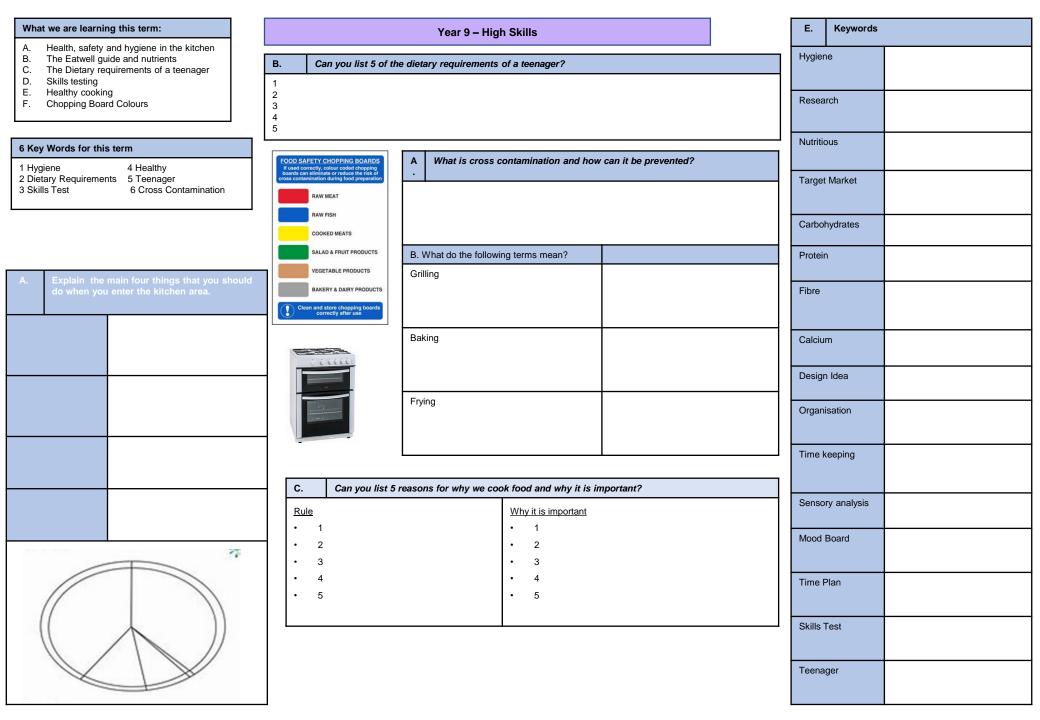


#### Year 9 PRODUCT DESIGN Term 5





What we are learning	g this term:				Year 9 – High	n Skills			E.	Keywords	
<ul><li>B. The Eatwell guid</li><li>C. The Dietary required</li><li>D. Skills testing</li></ul>	uirements of a teenager	E		n you list 5 of the dietary				J	Hygier	-	A method of keeping yourself and equipment clean
E. Healthy cooking F. Chopping Board		2 3 4	<ol> <li>A diet high in carbohydrate as a teenager is normally an energetic person.</li> <li>A diet with 2-3 potions of protein to maintain muscle growth and cell repair</li> <li>A diet with 2 -3 sources of calcium to build developing teeth and bones.</li> <li>A diet low in fat to avoid becoming obese or developing other health problems.</li> </ol>							ırch	Information that you find out to help you with a project
6 Key Words for this	term			2 litres of water a day.					Nutriti	ous	A meal that is healthy and contains vital nutrients.
1 Hygiene 2 Dietary Requirement 3 Skills Test	4 Healthy s 5 Teenager 6 Cross Contamination			SAFETY CHOPPING BOARDS correctly, colour coded chopping can eliminate or reduce the risk of tamination during food preparation		ross contamination and he			Target	t Market	The age or type of person you re creating a product for.
				RAW MEAT	must use the co	repare food which can there prrect equipment for the corr vays following good hygiene	ect ingredients. You n	nust also ensure	Carbo	hydrates	Foods that give you energy
	main four things that you she enter the kitchen area.	ould		COOKED MEATS		following terms mean?			Protei	n	Food that grow and repair your muscles
Remove all of your jewellery. Tie back your hair	Jewellery can harbour bacter and could fall off into the food	d.		SALAD & FRUIT PRODUCTS	Grilling		Using the top part of involves a significan direct, radiant heat, used for cooking me	t amount of and tends to be	Fibre		Foods that keep your digestive system healthy and avoid constipation.
touch equipment.				BAKERY & DAIRY PRODUCTS			vegetables quickly. healthier method of products.		Calcium		Foods that make your teeth and bones strong
Wash your hands with hot soapy water. Put on and apron	To remove any germs and bacteria from your hands and nails. To protect you from the food	and			Baking		Baking is a method food that uses dry h an oven. Heat is gra	eat, normally in idually	Desigr	n Idea	A sketch or plan of how you are hoping a project to turn out.
and tie it back.	equipment and the food from touching you.				-		transferred from the cakes, cookies, and centre.		Organ	isation	Having everything ready for a lesson and following
Annue in respect of the first state of the first st	Guia Eatwell				Frying		Frying is the cooking another fat. It is usu				instructions
And Andrewson				12			frying pan using the cooker. It also know unhealthy.		Time keeping		Using the time to remain organised.
							unnealtry.		Senso	ry analysis	Use your senses to taste and describe a product
		and the second	C.	Can you list 5 reason	s for why we coo	k food and why it is impoi	rtant?		Mood	Board	A collage of photos and key words based on a project
				1 to get rid of bacteria on th 2 to make the food taste be 3 to make food chewable		Why it is important           •         1 to stop food poise           •         2 to make the food           •         3 it could be raw or	more appealing		Time I	Plan	Instructions of wat you are going to do and how long it should take.
	Barry Inner Andrew Court			<ul> <li>4 to ensure that food is not raw</li> <li>5 to add colour to the food</li> <li>5 to make it look more appetising or change its use</li> </ul>				ge its use	Skills <sup>-</sup>	Test	Demonstrating your knowledge of a cooking term.
									Teena	ger	Someone between the age of 13 – 19.





#### Year 9: Music in the Movies

What we are learning this term:	C Playing the	Keyboard / Choro	le	F	Kauguarda			
				•	Keywords			
<ul> <li>A. Film Composers and Orchestra Instruments</li> <li>B. How to write a perfect Evaluation</li> <li>C. Playing the Keyboard / Chords</li> </ul>	6 <sup>4 3</sup> 2	234		Leitmotif / motif	a <b>recurrent theme</b> throughout a musical composition, associated with a person, idea, or situation			
<ul><li>D. What are the musical elements?</li><li>E. What are the music symbols – Note Values</li></ul>			Ĭ V	Musical Clichè	A cliché is a <b>phrase which is often used</b> , or overused			
F. Keywords G. How to read music – treble clef and bass clef		RIGHT HAN		Theme Tune	A piece of music that is known for representing the film/tv show			
7 Key Words for this term       1 Leitmotif     4 Synchronising       7 Atonal	BCDEFGAB	123 C D E F G A		Soundtrack	The collection of songs and musical arrangements played during a film/TV show.			
2 Soundtrack 5 Non-Diagetic 3 Underscore 6 Mickey-Mousing		D What a	re the musical elements?	Underscore	the <b>background music</b> used in a film to set the mood/atmosphere.			
A Famous Film Composers / Instruments	s of the Orchestra	Timbre	Sound quality	Opening / Closing Credits	A list of important people involved in the production of film/ty shows included at the start and end of films.			
Orchestra I	nstruments å	Pitch	High or low sounds					
	) 🛄 🛉 / 着	Texture	How many sounds	Mickey-Mousing	When the music perfectly fits with the action on the			
John Williams Elfman	viola 👰	Tempo	Fast or slow		screen.			
bass drum die ba	Duration Long or short			Atonal	term used to define <b>music that seems to lack a clear</b> tonal center – it doesn't sound good. It is perfect for			
The second secon	eello	Structure	The musical plan		horror movies!			
Bernard		Dynamics	Loud or quiet	Synchronising	The process of combining music/audio with moving image			
Hanz Zimmer Hermann Right Out Teaching Resources	bass P	Silence	No sound / rests in the music					
	कर कर कर खेट खेट खेट खेट खेट खेट खेट खिट	Attack/Decay	How notes start and stop	Non-Diegetic	Sound and effects that are added for dramatic effect.			
B How to write a perfect Evaluation?		E What a	re the music symbols?	G How to read	music – treble clef and Bass Clef			
1 Write a full sentence explaining what your music	al performance or music							

В	How to write a perfect Evaluation?	E	E Wha	at are	the r	nusic	c syı	mbols?			G	Ho	w to r	ead n	nusic	– treble (	clef an	d Bas	s Clef			
1	Write a full sentence explaining what your musical performance or music composition was about				Beats	Rest	Note	Name	Beats	Rest	TR	EBLE	LINES	S: E	GBI	DF	Т	REBLE	SPAC	ES: F	ACE	
		0	Semibreve, Whol	le Note	4 beats		0.	Dotted Semibreve, Dotted Whole Note	6 beats	<b></b> ·	2				0	0	Ē	<u> </u>			0	
2	Explain what you were trying to communicate to an audience and how you did it	9	Minim, Half Note		2 beats		d.	Dotted Minim, Dotted Half Note	3 beats		9	e E	e G	B	D	F	ę	<del>) о</del> F	0 A	c	E	Ξ
3	Pick out at least two moments that worked really well, using specific examples and say what you did that made them successful	٩	Crotchet, Quarte	r Note	1 beat	ર્ક	<b>.</b>	Dotted Crotchet, Dotted Quarter Note	1% beats	ફે.		SS L	INES:	GB	DF	A		BASS	SPACE	s: A	CEG	
		J	Quaver, Eighth No	ote	1/2 beat	7	J.	Dotted Quaver, Dotted Eighth Note	3/4 beat	7.												_
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										2	0	0	0	0		2	(. 0	0	0	U	
	again											G	В	D	F	A		A	с	E	G	
5	Sum up your evaluation and discuss one thin that you will take forward into your next work																					

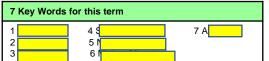


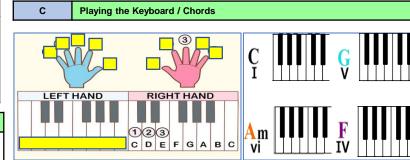
#### Year 9: Music in the Movies

What are the musical elements?

#### What we are learning this term:

- A. Film Composers and Orchestra Instruments
- B. How to write a perfect Evaluation
- C. Playing the Keyboard / Chords
- D. What are the musical elements?
- E. What are the music symbols Note Values
- F. Keywords
- G. How to read music treble clef and bass clef





D

Timbre Pitch Texture

Tempo

Duration

Structure Dynamics Silence Attack/Decay

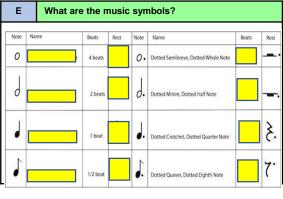
F	Keywords
Leitmotif / motif	a recurrent theme throughout a musical composition, associated with a person, idea, or situation
	A cliché is a phrase which is often used, or overused
Theme Tune	A piece of <b>music that is known for representing</b> the film/tv show
Soundtrack	
	the <b>background music</b> used in a film to set the mood/atmosphere.
Opening / Closing Credits	
	When the <b>music perfectly fits with the action</b> on the screen.
Atonal	
Synchronising	
	Sound and effects that are added for dramatic effect.

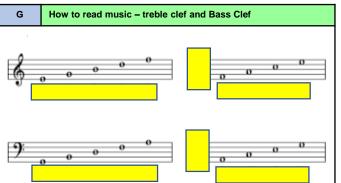
Keywords

-



В	How to write a perfect Evaluation?
1	Write a full sentence explaining what your musical performance or music composition was about
2	
3	· · · ·
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	







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

**Tongue Twisters** 

butter

bitter

Peter Piper picked a peck of

Betty Botter bought some

But she said the butter's

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

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?

Peter Piper

Betty Botter



#### What we are learning this term:

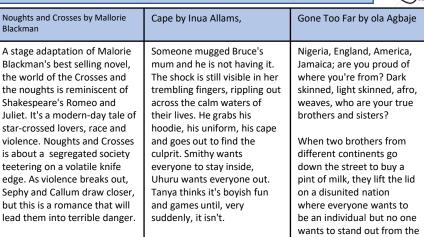
- A. How to develop our vocal techniques.
- B. How to develop our physical techniques.

movement).

pitch

- C. How to interpret the director's creative intention for a group piece.
- D. How to reflect, analyse and evaluate our development.





	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

crowd.

#### 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	
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,

the particular level of a voice, instrument or tune.





pitch

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

**Tongue Twisters** 

make my batter better So 'twas better Betty Botter bought a bit of better butter

Peter Piper

Betty Botter

CROS



#### What we are learning this term:

- How to develop our vocal techniques. Α.
- В. How to develop our physical techniques.
- C. 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 M B	Cape by I A	Gone Too Far by O A
A stage adaptation of M	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.

	Г	
e Twisters		Themes and Issues Explored
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 Botter bought some butter But she said the butter's bitter If I put it in my batter, it will make my batter butter will make my batter butter		Being composed of differing elements and variety. The inclusion of people of different races, cultures, etc. in a group or organization.
		Behaviour or attitudes that reflect and foster this belief : racial discrimination or prejudice.
		Connecting or binding people in either a family, friendship or work collaboration.
		Moral, legal or mental accountability.
		A community, nation, or broad grouping of people having common traditions, institutions, and collective activities and interests
So 'twas better Betty Botter		

#### Script Work– Key focus

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	4.9
KEY WORDS	
articulation	
aside	
business	
characterisatio n	
dialogue	
focus	
gesture	
imaging	
improvisation	
inflection	
Interaction	
language	
mannerism	
mime	
mirroring	
monologue	
motivation	
movement	
pace	
performance elements	

