

Subject:	Science		Timings	NB: 30 mins per week spent on FR and responding to feedback				
SoW Title:	Yr 8 C1		Lesson 1 (90)	NB: data expectations - 100% scores tracked each week, MCA/EOC marked and QLA to discuss with LM				
Year	2018		Lesson 2 (90)	NB: feedback expectations - mark one exam Q per week, pupils have time in lessons to respond				
Date:	25/07/2018							
Week	Lesson	Title	Objective	Key Knowledge/Content	Assessment and Showcase Pieces (minimum grade 6)	Mastery tasks	Links to resources e.g. 100% Sheets	
1	1	Separation	Describe methods used to separate mixtures (distillation, filtration, evaporation, magnets?)	CPAC 1 - following a method Name 4 separation techniques Describe the use of each technique		Learn topic 1 from cycle 1 100% sheet		
	2	Separation (applied)	Use particle diagrams to show how particles can be separated.	Draw labelled particle diagrams Describe the role of each separation technique Choose the most appropriate technique	ET (TA with feed) 100% sheet			
2	1	Heating particles	Explain what happens to particles when a substance is heated	Draw particle diagrams, Describe the movement of particles in solids, liquids and gases Explain the effect of heating		Learn topic 2 from cycle 1 100% sheet		
	2	Contact and expansion	Explain what happens to particles when pressure is applied	Draw particle diagrams, Describe the movement of particles Define gas pressure and describe its effects	ET (TA with feed) 100% sheet			
3	1	Gas pressure	Explain how gas pressure increases	Describe the effect of temperature on gas pressure Describe the effect of container size on gas pressure Draw particle diagrams to show how gas pressure is affected		Learn topic 3 from cycle 1 100% sheet		
	2	Diffusion - what is it?	Use particle diagrams to represent diffusion	State what is meant by diffusion Describe the movement of particles	ET (TA with feed) 100% sheet			
4	1	Diffusion - applications	Explain the role of diffusion within the human body	State where diffusion occurs in the body Describe the movement of particles between cells Explain the role of diffusion in the body		Learn topic 4 from cycle 1 100% sheet		
	2	Recap	Plan as appropriate		ET (TA with feed) 100% sheet			
5	1	Circulatory System	Explain the role of organs in the circulatory system	Name the components of the circulatory system State the role of each component in the circulatory system Describe adaptations pertinent to the roles		Review topics 1-4 from cycle 1 100% sheet		
	2	Digestive System	Explain the role of organs in the digestive system	Name organs in the digestive system State the role of organs in the digestive system Describe adaptations pertinent to the roles	ET (TA with feed) 100% sheet			
6	1	Food chains	Describe feeding relationships between organisms	Describe the route of energy transfer between organisms Explain why energy is 'lost' at each trophic level Construct and interpret food chain diagrams		Learn topic 5 from cycle 1 100% sheet		
	2	Food webs	Describe the interdependence of organisms	Interpret and construct food webs State trophic levels and use knowledge to predict changes Predict and explain changes in food webs Analyse human impacts on natural systems	ET (TA with feed) 100% sheet			

7	1	MCA	MCA		MCA - topic 1-5 c			
	2	Acid reactions	Describe the products formed when	Name the general products of both reactions CPAC 3 - Stay safe Explain practical observations Use particle diagrams to show a chemical reaction	ET (TA with feed 100% sheet	Learn topic 6 from cycle 1 100% sheet		
8	1	Acid reactions	Describe the products formed when	Name the general products of both reactions CPAC 3 - Stay safe Explain practical observations Use particle diagrams to show a chemical reaction		Learn topic 7 from cycle 1 100% sheet		
	2	Naming Salts and	Use word equations to summarise	Name 3 common acids and their Identify a metal, metal carbonate Predict the products formed given	ET (TA with feed 100% sheet			
9	1	Non-contact forces				Learn topic 8 from cycle 1		
	2	Newton's Laws			ET (TA with feed 100% sheet	100% sheet		
10	1	Speed	Calculate speed, distance travelled	State the equation $S=D/T$ Recall the rearranged equations Use SI units for S, D and T Convert units of time and distance		Review topics 1-8 from cycle 1 100% sheet		
	2	D/T graphs	Interpret and complete distance-time	Describe what different parts Read values from D/T graphs Use information to construct Associate -D with movement	ET (TA with feed 100% sheet			
11	1	Acceleration	Calculate the acceleration of an object	State the equation for acceleration State the units for acceleration Describe deceleration as -a Solve problems given information about speed				
	2	S/T graphs	Interpret and complete speed-time	Describe the motion of objects Draw a S/T graph given data Read values from a S/T graph	ET (TA with feed 100% sheet			
12	1	Assessment	Assessment		EOC - topic 1-8 c			
	2	TEAM REACH						
13	1	Feedback	Plan as appropriate					
	2	Re-teach	Plan as appropriate					

	2	Duffusion	1. Understand what is meant by concentrations. 2. Be able to explain what is meant by diffusion						
		3	Diffusion in cells	1. Understand what specialised cells require diffusion. 2. Explain how diffusion occurs in cells. 3. Explain how cells are adapted to perform diffusion.					
8		4	Osmosis						
		1	Osmosis in cells						
		2	Cell organisation						
		3	Organ systems						
9		4	Skeletal system						
		1	Parts of the digestive system						
		2	Journey of food as it passes through the digestive system						
		3							
10		4							
		1	<i>Revision</i>						
		2	<i>Revision</i>						
		3	<i>Assessment</i>						
11		4	<i>Assessment</i>				Full EOC Assess		
		1	<i>Re-teach</i>				Full EOC Assess		
		2	<i>Re-teach</i>						
		3	<i>Re-teach</i>						
12		4	<i>TEAM REACH</i>						
		1							
		2	<i>Feedback</i>						
		3	<i>Redrafting</i>						
13		4	<i>TRIP</i>						

Subject:	Triple Science: Physics						
SoW Title:							
Year:	2018						
Date:	01/09/2018						
Week	Lesson	Title(Chapter title)	Key Knowledge/Content	Objective	Assessment and Showcase Pieces (minimum grade 6)	Mastery tasks	Links to resources e.g. 100% Sheets
1 Full Stops	1	PCD		Overview of course. SI units			
	2	Overview of physics GCSE	SI units. Conversions to SI units.	Using VESSU			
2	1	Solving Equations	Practice solving equations using known and unknown formulas.	To understand different types of radiation			
	2	Atoms and radiation	What a radioactive substance is. Types of radiation.	To understand the development of the Bohr model of the atom			
3	1	Discovery of the nucleus	Plum pudding model and why was rejected.	Write down nuclear equations.	Answer a 6 mark question on the discovery		
	2	Changes in the nucleus	What an isotope is. How atoms change when an alpha or beta is emitted.	Understand the applications of penetration	Answer GCSE questions about nuclear equi		
4	1	Alpha, beta gamma and penetration	Understand how far each form can travel in air and absorption. Ionisation.	Define half life. Calculate half life.			
	2	Half life	Understand half life and calculate it from a graph.	How to use radiation for a specific job.	GCSE questions		
5	1	Nuclear radiation and medicine	How isotopes are used for diagnostics	Be able to draw fission and fusion diagrams. Understand chain reaction			
	2	Nuclear fission and fusion	Understand the difference between fusion and fission	Be able to argue for and against the use of nuclear energy.			
6	1	Nuclear issues	Understand the ethical issues regarding the use of radiation				
	2	Radiation Assessment					
7	1	Feedback					
	2	Molecules and matter	Understand density	1. Be able to recall the density equation. 2. Calculate density problems. 3. Be able to determine if an object will float.	Pg 77 questions.		
8	1	States of matter	Understand the difference between solid, liquid and gas.	1. Be able to state the different properties of a solid, liquid and gas. 2. Be able to describe the arrangements of particles in each state. 3. Understand why the mass stays the same when there is a change of state.	Pg79 Questions		
	2	Change of state(Practical: Plotting change of state graph)	Understand what happens to a substance when there is a change of state.	1. state what is meant by boiling and melting points. 2. Be able to state what is meant by latent heat. 3. Be able to calculate specific latent heat.			
9	1	Specific heat capacity. (RP)	Understand what is meant by SPH.	1. Be able to state the SHC formula. 2. Plot graph and calculate gradient. 3. Calculate specific heat capacity.	GCSE question on the RP		
	2	Internal energy	Understand what is meant by internal energy	1. Be able to state the difference between kinetic and potential energies. 2. State what happens when you increase the temperature. 3. Explain how a gas exerts pressure.	Pg83 questions		
10	1	Specific latent heat	Understand what is meant by specific latent heat.	1. Be able to define specific latent heat. 2. Be able to recall specific latent heat. 3. Be able to calculate specific latent heat.	Pg85 questions		
	2	Gas pressure and temperature	Understand how temperature is linked to gas pressure	1. Understand how a gas exerts pressure. 2. How pressure is changed in a sealed container when temperature is changed. 3. Be able to describe brownian motion			
11	1	Gas pressure and volume	Understand Boyle's law	1. Understand work is done on a piston. 2. Be able to state Boyle's law. 3. Solve problems using Boyle's law	Pg89 questions		
	2	Revision					
12	1	Revision					
	2	Assessment					
13	3	Re-teach					
	4	TEAM REACH					
13	1	Feedback					
	2	Redrafting					
	3	TRIP					

