

Key Stage 3 Curriculum Map 2019 - 2020

Term 1

Subject: Science		Year Group: 8				
Week/Date	Focus/Topic	Objectives	Key Skills	Home Learning/Resources		
1 Sept 2 nd -5 th	Baseline assessments, curriculum orientation and expectations					
2 Sept 8 th -12 th	 The periodic table Reactivity series Atomic model and electronic configuration 	 To identify how many protons, electrons and neutrons there is in an element To be able to place metals in order of most to least reactive To describe and draw atoms 	 Recall, application, working scientifically, maths in science 	 Start acids and alkali home learning project 		
3 Sept 15 th -19 th	 Covalent bonds Giant covalent structures Ionic bonding 	 To draw and explain covalent bonds To be able to identify and describe properties of giant covalent structures To be able to identify ionic bonds and draw dot and cross diagrams 	 Recall, application, working scientifically, maths 			
4 Sept 22 rd -26 th	 Collision theory and rate of reaction Effect of surface area on rate of reaction 	 To explain what is meant by collision theory To describe the effect surface area has on the rate of reaction 	- Decell emplication	 Continue acids and alkali home learning project 		
5 Sept 29 th -Oct 3 rd	• Effect of concentration on the rate of reaction	 To explain the effect of concentration on the rate of a reaction 	Recall, application, working scientifically			
6 Oct 6 th -10 th	• Effect of temperature on rate of reaction	 To explain the effect of temperature on the rate of reaction 				

	 Effect of catalyst on the rate of reaction Haber process Acids and alkalis 	 To describe the effect of a catalyst on the rate of reaction To describe the basic process of the harder 	 Recall, application , working scientifically 	 Finish acids and alkali home learning 	
7 Oct 13 th -17 th	 Types of acid and concentration 	 process To identify acids and alkalis To calculate the concentration of an acid and alkali 		project	
8 Oct 20 th -24 th	Mid Term Break				
9 Oct 27 th -Oct 31 st	 Neutralisation reaction Naming and making salts Yield 	 To state what is meant by neutralisation and write word equations To describe ways in which salt is made To state what is meant by yield and calculate percentage yield 	 Recall, application, working scientifically, maths 	 Start chemical reactions home learning project 	
10 Nov 3 rd -7 th	 Precipitation reaction Making copper sulfate Symbol equations and relative formula mass 	 To state what is meant by a precipitation reaction To plan a practical for making copper sulfate To calculate relative formula mass 			
11 Nov 10 th -14 th	Soft and hard waterPurifying water	 To describe how to test for different water types To describe stages in water purification 		 Continue chemical reactions home 	
12 Nov 17 th -21 st	 Extracting metals Electrolysis Polymers 	 To state what is meant by reduction and displacement To understand that electrolysis is another method of extracting metals To describe the process of 	 Recall, application, working scientifically 	learning project	
Nov 24 th -28 th		making polymers			

14 Dec 1 st -5 th	Life cycle assessment	 To discuss the importance of LCA 	Recall, application	 Continue chemical reactions home learning project 		
15 Dec 8 th -12 th	 Reducing the impact in the environment 	 To describe the impact of combustion on the environment 	scientifically	 Finish chemical reactions home learning project 		
Winter Break: December 13 th – January 2 nd						