

Curriculum Map: Chemistry Year 7 (delete as necessary)

	Autumn	Spring	Summer
Content Declarative knowledge 'I Know'	Topic – particle model. Categorise states of matter Defining melting, freezing, boiling and condensing, diffusion and gas pressure	Defining chemical and physical changes To know the difference between acid and an alkali To state the different reactions of acids To know the structure of the periodic table	To know the difference between pure substances and mixtures, To know how substances dissolve, define solubility, can list separation techniques
Skills Procedural Knowledge 'I know how to'	Equipment handling Lab safety Observations of reactions Measuring reactions. Recording and analysing data Planning of experimental methods - naming variables Making prediction	Writing word equations Equipment handling Observations of reactions Measuring reactions. Recording naming variables Making predictions, Learning how to follow a method	Know how to separate different mixtures To interpret a solubility curve Observations of reactions Measuring reactions. Recording and analysing data Planning of experimental methods - naming variables Making predictions
Strategies Conditional Knowledge 'I know when to'	Drawing conclusions Evaluation of experimental methods – knowing when to change parameters and alter variables. Interpreting cooling curves and using them to draw conclusions.	Analysing data To know when to add hydrogen or water at the end of a chemical equation To know when to add the chemicals together in order to conduct a safe practical.	To know when to use each separating technique To evaluate how successful different techniques are To identify when a separation experiment has finished
Key Questions	What are materials like inside? What gives a material its properties?	What are the chemical reactions? What are the patterns in the reactions of metals? What are the patterns in the reactions of acids?	How can we separate the components of a mixture
Assessment topics	End of topic test (after 8 lessons of topic) and this will be re tested at the end of the term.	End of topic test (after 8 lessons of topic) and this will be re tested at the end of the term.	End of topic test (after 8 lessons of topic) and this will be re tested at the end of the term.
Cross curricular links/Character Education	Diffusion – Biology Melting points – food Cooling curves and graph work – maths States of matter – Physics	Material properties – DT Acids and alkalis – food Neutralisation – geography	Separation techniques – food Graphical analysis – maths Chromatography - Art