

Science Department – Year 8 Chemistry Curriculum and Assessment Map

	Half Term 1	Half-Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Year 8	Types of Chemical Reaction Part 1		Acids and Alkalis		The Periodic Table	
Fundamental Knowledge	 Write word equations and interpret symbol equations for oxidation reactions. Describe some common properties of metals. Relate the uses of different metals to their physical properties. Name the compounds formed by a reaction between a metal and a non-metal and write word equations for these reactions. Explain what is meant by 'corrosion' and 'rusting'. Explain how metals can be protected from corrosion. Describe the reactions of different metals with water and write word and symbol equations for these reactions. Describe the gas test for hydrogen. Place metals in order of reactivity based on their reactions with water and oxygen. State what is produced when a metal reacts with an acid and write word equations for these reactions. Name the salts produced by the reactions between metals and different acids. Describe what a displacement reaction involves. State what is meant by an 'alloy' and describe their properties. Draw a diagram to model the arrangement of particles in pure metals and alloys and use this to explain the properties of alloys. 		1. Recognise common haz hazard and how to minimi 2. Key Practical Skill: Write identifying hazards and de risk. 3. Describe the difference are corrosive or irritants. 4. Give examples of 'every acids and alkalis. 5. State the colour that litr acidic or alkaline substancindicator to identify substancindicator to identify substances and coalkalinity. 8. Name the pH scale to ideneutral substances and coalkalinity. 8. Name the type reaction acid reacts with an alkali. 9. State what 'reactants' a chemical reaction and intelidentify the products and reactions. 10. Write word equations named acids and alkalis. 11. State what is meant by reaction between acids and 12. Give some 'everyday' and explain how they are interested.	se the risk of harm. e a risk assessment, escribing how to minimise between substances that day' substances that are mus indicator turns in es and use litmus ances as acidic or alkaline. a 'neutral' solution. httpy acids, alkalis and mpare acidity and that takes place when an and 'products' are in a erpret a word equation to reactants in neutralisation for the reactions between a 'base' and describe the d bases. examples of neutralisation	the periodic table and desproperties. 9. State what elements in periodic table share. 10. Describe how the periodic table share. 11. Key Practical Skill: Expiresults are, identify them suggest reasons for anom. 12. Describe how the sizes groups and periods of the	nysical properties of nemical properties of or chemical reactions. In the important of the

			15. Describe the reactions of metals with water and oxygen and write word and symbol equations for these reactions.
Learning Checkpoint Tasks	LC1 – Properties of Metals LC2 – Reactivity of metals & Making salts	LC1 - Hazards and risks in the lab LC2 - Acids and Alkalis	LC1 – Dalton & Development of the periodic table LC2 – Chemical equations
Common Assessment Task	KS3 YEAR 7 TRUST ASSESSMENT TERM 3 – End of year test (The particle model, Atoms, elements & Compounds and mixtures & types of chemical reactions part 1	KS3 YEAR 8 TRUST ASSESSMENT TERM 2 – Acids and Alkalis	KS3 YEAR 8 TRUST ASSESSMENT TERM 3 – End of year test (Separation techniques and Acids and Alkalis and The periodic table)
Interleaved Knowledge	Links to KS2 Year 5 Materials - Demonstrate that dissolving, mixing and changes of state are reversible changes.	Links to KS2 Year 5 Materials - Demonstrate that dissolving, mixing and changes of state are reversible changes.	Links to KS2 Year 5 Materials - Recall that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.