


We will learn: Metals and Acids

Element	More ambitious 		
1. Metals and Acids	List the metals in order of how well they reacted with acid	Write word equations for the chemical reactions	Write formula equations for chemical reactions if given word equation
2. Metals and Oxygen	List the metals in order of how well they reacted with oxygen	Write word equations for the chemical reactions	Write formula equations for chemical reactions if given word equation
3. Metals and Water	List the metals in order of how well they reacted with water	Write word equations for the chemical reactions	Describe the pattern between reactivity and position in the periodic table Write formula equations for chemical reactions if given word equation
4. Metal Displacement	State which metal is more reactive in a pair of named metals	Write word equations for the chemical reactions	Predict which combinations of metals and metal compounds will lead to displacement reactions. Write formula equations for chemical reactions if given word equation
5. Extracting Metals	Describe how to extract copper from copper oxide.	Explain how copper is extracted from its ore. Write word equations for the chemical reactions	Explain why carbon is used to extract metals
6. Ceramics	Describe some uses of ceramics	Construct a list of physical and chemical properties of ceramics	Explain how the structure gives ceramics these properties

7 Polymers

Describe the differences between a synthetic and a natural polymer

Explain how polymer properties make them suitable for their uses
Select the best polymer for a given job

Explain the properties of different polymers

8 Composites

Describe some properties of composites

Explain how composites properties make them so useful

Plan a fair test into strengths of concrete