

Chemistry and Reactions yr9

Pre-test 1

Science ideas I need to know Success Criteria	Start of Unit			End of Unit		
	I know this	I know some of this	I need to learn this	I know this	I know some of this	I need to learn this
1a. Define a chemical reaction as one producing a new product						
1b. Identify reactants and products in word equations						
2a. Carry out the test for oxygen gas						
2b. Carry out the test for hydrogen gas						
2c. Carry out the test for carbon dioxide gas						
2d. Recognise the positive observations seen to indicate the presence of oxygen, hydrogen and carbon dioxide						
3a. Give a definition of an ion						
3b. Copy a chart of common ions and begin to memorize formulae and names						
4a. Construct the Balanced formulae of ionic compounds						
4b. Name given ionic compounds						
5a. Identify common substances as acid, base or neutral						
5b. Define acids as donating H ⁺ ions and bases as accepting H ⁺ ions						
5c. Learn the names and formula for common acids and bases						

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	I know this	I know some of this	I need to learn this	I know this	I know some of this	I need to learn this
6a. Describe solutions as acidic, alkaline or neutral in terms of the pH scale						
6b. Investigate which colour Universal indicator and litmus paper will turn in common substances						
6c. Investigate neutralisation reactions between acids and bases						
6d. Write chemical word equations and balanced equations for acid-base reactions						
7a. Define the main physical properties of metals						
7b. Explain how the properties of metals and alloys give rise to their uses						
EXTENSION						
8a. Investigate how metals form oxides by reaction with oxygen						
8b. Investigate how metals react with acid to form a salt and hydrogen gas						
8c. Investigate how metal carbonates react with acid to form a salt and water and carbon dioxide gas						
8d. Construct balanced formula equations for metal reactions						