Open Awards Qualification Unit

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1 Unit Details

Unit Title:	Chemical Reactions
Unit Reference Number:	J/618/3222
Level:	2
Credit Value:	3
Minimum GLH:	24

2 Learning Outcomes and Criteria

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Be able to identify common gases	1.1 Outline how to identify common gases including CO2. Describe how we test for common gases including CO2, H2 and O2
	1.2 Demonstrate the identification of common gases
	1.3 Give the state symbols for; a) Solids b) Liquids c) Gases d) Aqueous solutions
2. Know about chemical reactions	2.1 Describe energy changes in chemical reactions including: a) Bond making b) Bond breaking c) Use this idea of energy to explain endothermic and exothermic reactions. d) Describe bonds in terms of intermolecular and electrostatic forces

	2.2	Know what reversible reaction is and the factors that affect this
	2.3	Outline factors that will affect rate of reaction, including: a) Temperature b) Concentration c) Surface area d) Catalyst
	2.4	Define the characteristics of the following types of reaction: a) Redox b) Acid-base c) Combustion d) Precipitation
3. Be able to use formulae to represent molecules and equations to represent chemical reactions	3.1	Construct simple formulae for molecules
	3.2	Construct a balanced equation for types of chemical reaction
4. Describe the relationship between reactants and products	4.1	Explain the effect of a limiting a reactant on the amount of products
	4.2	Use the relative formula mass to calculate the number of moles in a given mass
	4.3	Calculate the masses of reactants and products from the balanced symbol equation and the mass of a given reactant or product