

Unit Title: Chemistry: Structure and Changes
Level: Two
Credit Value: 3
GLH:
NOCN Unit Code: RH4/2/EA/005
QCA Unit Reference
Grading Descriptor Number(s): Not applicable

This unit has 5 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Understand the structure of the atom and the arrangement of electrons.	1.1. Given mass and atomic number state the number of protons, neutrons and electrons in atoms and ions up to calcium. 1.2. Construct electron shell diagrams for atoms up to calcium.
2. Recognise patterns in the periodic table.	2.1. Describe trends in physical properties in groups 0, 1 and 7. 2.2. Explain typical reactions of the elements of groups 1 and 7 and their compounds.
3. Recognise types of chemical reactions.	3.1. Define the characteristics of a chemical reaction. 3.2. Define the characteristics of the following types of reaction: a) redox b) acid-base c) combustion d) precipitation 3.3. Explain the factors which affect the rate of a chemical reaction.
4. Understand pH, acids, alkalis, indicators and neutralisation.	4.1. Define acids and alkalis in terms of ions formed, pH and the effects on indicators. 4.2. Discuss the reactions of dilute acids with metals, alkalis and carbonates.

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
5. Use symbols to represent molecules and equations to represent chemical reactions.	5.1 Construct ten simple formulae for molecules. 5.2 Construct a balanced equation for three types of reaction.

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ASSESSMENT INFORMATION

Guidance:

This grid gives details of the assessment activities to be used with the unit attached. Please refer to the NOCN Handbook for definitions of each activity and the expectations for assessment practice and evidence for moderation.

The assessment activities for this unit are indicated in the table below:

Key: **P = Prescribed** – this assessment method *must* be used to assess the unit.
O = Optional – this assessment method *could* be used to assess the unit.

Case study		Project	
Written question & answer/test/exam		Role play/simulation	
Essay		Practical demonstration	
Report		Group discussion	
Oral question and answer		Performance/exhibition	
Written description		Production of artefact	
Reflective log / diary		Practice file	

Signposting Key Skills

This unit offers clear opportunities for learners to provide evidence of achievement in Key Skills achievement in the following skill area/s:

Key Skill		Wider Key Skill	
Communication		Working with others	
Information Technology		Problem solving	
Application of Number		Improving Own Learning and	

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Unit Title:
Level:
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NOCN Unit Code:
QCA Unit Reference Code:
Accredited Start date:
Accredited End date:
Unit Sector/Subject area:
Grading descriptors:
Availability for Use:

Purpose and Aim of the Unit	Free Text
Restrictions on the Availability	Free Text or N/A
Additional Assessment Requirements	Free Text or N/A
Details of relationship between the Unit and the NOS	Free Text or N/A
Details of relationship between the Unit and Standards (not NOS)	Free Text or N/A
Endorsement of the Unit by	Free Text or N/A