

Unit Title: Chemistry Unit I
Level: Three
Credit Value: 9
GLH:
NOCN Unit Code: RD1/3/TE/013
QCA Unit Reference
Grading Descriptors: 4, 7

This unit has 5 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Describe and explain the main types of chemical substance in terms of their composition and properties,	1.1. Classify the main types of chemical compound based on information and observations 1.2. Offer chemical reasons for differences eg covalent and ionic compounds 1.3. Evaluate the relative significance of different factors including bond polarity, include dative covalent bonds
2. Use observations of quantitative inorganic chemical changes and explain these in appropriate terminology,	2.1. Describe in quantitative, ie mole terms what can be observed to be happening in chemical reactions 2.2. Carry out mole calculations 2.3. Discuss the significance of observations
3. "Make predictions based on chemical facts, data and or observations of the first 20 elements,"	3.1. Explain results in terms of the Periodic Table and on the basis of information given use chemical ideas to predict changes 3.2. Relate these predictions and the Periodic Table to atomic structure
4. Understand the significance of energy changes in chemical reactions	4.1. Describe reactions in terms of energy input and output 4.2. Carry out simple calculations on energy changes 4.3. Evaluate the likely effect of an energy change on reaction 4.4. Carry out more complicated calculations

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
5. Work safely and competently in the laboratory	5.1. Perform experiments safely and competently as instructed taking account of potential hazards and changing conditions 5.2. Modify experiments and evaluate different procedures

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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 Performance	

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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