

Access to Higher Education Unit

This unit forms part of an Access to HE Diploma. If delivering the graded version of this unit, please refer to the Provider Handbook for details on grading descriptors and the application of these across units within your programme.

Unit Title: Introduction to Chemistry

Graded Unit Reference Number: GA33CHE17

Ungraded Unit Reference Number: UA33CHE17

Module: Science for Health

Level: 3

Credit Value: 3

Minimum Guided Learning Hours: 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand atomic structure and the nature of elements	1.1 Describe the properties of electrons, protons and neutrons using relative charge and mass
	1.2 Define atomic number and mass number
	1.3 Describe the structure of atoms in terms of atomic particles
	1.4 Relate the position of elements (atomic number 1 to 24) in the periodic table to their atomic structure
	1.5 Explain the nature and properties of unstable isotopes
2. Understand bonding and the structure of molecules	2.1 Describe covalent bonding and ionic bonding
	2.2 Write the formulae of simple covalent and ionic compounds
	2.3 Explain the solubility of ionic compounds in water
	2.4 Explain strong acids and bases in terms of ionisation in water

3. Understand the nature and variety of biological and other organic compounds	3.1	Describe the nature and position of bonds formed between carbon and other non-metal elements
	3.2	Name and write the formulae of simple alkanes and alkenes, alcohols and organic acids (up to six carbon atoms)
	3.3	Use examples to explain isomerism
	3.4	Explain weak (organic) acids in terms of their ionisation in water