

Unit Title: Biology
Level: Three
Credit Value: 12
GLH:
NOCN Unit Code: RH3/3/TE/032
QCA Unit Reference
Grading Descriptors: 1, 4, 7

This unit has 8 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Appreciate the chemical structure and biological importance of the main bio molecules (including enzymes)	1.1. Test food for its chemical constituents 1.2. Carry out effectively a practical assignment on enzymes 1.3. Evaluate the biological significance of foods
2. Understand cell ultrastructure and the process of cell division	2.1. Demonstrate the relevant practical skills through given microscope work 2.2. Assess stages of mitosis through the microscope
3. Recognise the structure and function of the cardiovascular system	3.1. Summarise the major structural components of the heart 3.2. Summarise the transport of O ₂ and CO ₂ 3.3. Summarise changes in blood pressure throughout the body
4. Understand reproductive biology in mammals with particular reference to human physiology	4.1. Evaluate the process of fertilization implantation and gestation 4.2. Summarise major STI's
5. Recognise states of pathology or disease in body systems (eg cardiovascular and respiratory ailments)	5.1. Investigate cardiovascular health through exercise activities 5.2. Summarise common cardiovascular and respiratory diseases
6. Understand the principles of genetic manipulation	6.1. Summarise the structure and functioning of nucleic acids 6.2. Summarise the main principles of genetic manipulation 6.3. Critically examine ethical and social problems associated with gene technology
7. Understand simple processes of energy transfer within animal and plant bodies	7.1. Carry out an investigation related to photosynthesis 7.2. Compare and contrast respiration and photosynthesis

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
8. Understand a range of global environmental problems with reference to human effects on the ecosystem	8.1. Analyse the cause of a specified global environmental problem

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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