

Access to H.E. National Programme Unit



Unit Title:	Genetics		
Graded Unit Code:	GA33BIO06	Ungraded Unit Code:	UA33BIO06
Pathway(s):	Health Science and Engineering		
Module(s):	Human Biology Biology		
Level:	3	Credit Value:	3
Valid from:	31 st July 2021	Valid to:	31 st July 2026

The following QAA grade descriptors must be applied if you are delivering the graded version of this unit:

1	Understanding of the subject
2	Application of knowledge
5	Communication and presentation
7	Quality

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Understand the nature and causes of variation in a population	1.1 Use examples to distinguish between continuous and discontinuous variation
	1.2 Explain the roles of genetic makeup and environmental effects in producing variation
	1.3 Show how mutation and meiosis lead to genetic variation
	1.4 Evaluate the benefits and dilemmas in the use of human twin studies to investigate the causes of variation

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2. Understand the principles of Mendelian inheritance	2.1 Use genetic diagrams to predict the outcomes of monohybrid inheritance
	2.2 Show how the offspring ratios for monohybrid crosses led to the formulation of Mendel's first law of inheritance
	2.3 Use genetic diagrams to predict the outcomes of dihybrid inheritance
	2.4 Show how the offspring ratios for dihybrid crosses led to the formulation of Mendel's second law of inheritance
3. Appreciate that a range of genetic systems apply to different inherited traits	3.1 Use genetic diagrams to predict the outcomes of inheritance involving: a) Sex-linkage b) Multiple allele systems (e.g ABO blood groups) c) Epistasis