

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: Evolution and Speciation

Graded Unit Reference Number: GA33BIO04

Ungraded Unit Reference Number: UA33BIO04

Module: Biology

Level: Three (3)

Credit Value: Three (3)

Minimum Guided Learning Hours: 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Recognise and use systems of classification of life	1.1 Explain the development of the two kingdom systems of classification (proposed by Linnaeus) into the modern systems. 1.2 Distinguish the main features of organisms belonging to different kingdoms (five or six kingdom classifications) 1.3 Explain the principles of hierarchy of taxonomic groups and use named examples to illustrate the use of taxa
2. Understand evidence for the theory of evolution by natural selection	2.1 Describe two different examples of evidence suggested by Charles Darwin in support of his theory of natural selection 2.2 Research two different examples of artificial selection that support Darwin's theory 2.3 Analyse data in support of Darwin's theory from comparative morphology, comparative biochemistry and comparison of genomes
3. Understand how natural selection may lead to speciation	3.1 Compare the main features of Darwin's theory of speciation with those of Lamark's

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| 3.2 | Identify factors that can lead to genetic mutation and use specific examples to illustrate the possible consequences (advantageous, neutral, detrimental) |
| 3.3 | Identify a range of selection pressures that may contribute to speciation |
| 3.4 | Explain the importance of reproductive isolation in the formation of a new species |