

# Access to H.E. National Programme Unit



Unit Title:	Evolution and Speciation		
Graded Unit Code:	GA33BIO04	Ungraded Unit Code:	UA33BIO04
Pathway(s):	Science and Engineering		
Module(s):	Biology		
Level:	3	Credit Value:	3
Valid from:	31 <sup>st</sup> July 2021	Valid to:	31 <sup>st</sup> 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
<b>The learner will:</b>	<b>The learner can:</b>
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

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	<p>2.2 Research two different examples of artificial selection that support Darwin's theory</p>
	<p>2.3 Analyse data in support of Darwin's theory from comparative morphology, comparative biochemistry and comparison of genomes</p>
3. Understand how natural selection may lead to speciation	<p>3.1 Compare the main features of Darwin's theory of speciation with those of Lamarck's</p>
	<p>3.2 Identify factors that can lead to genetic mutation and use specific examples to illustrate the possible consequences (advantageous, neutral, detrimental)</p>
	<p>3.3 Identify a range of selection pressures that may contribute to speciation</p>
	<p>3.4 Explain the importance of reproductive isolation in the formation of a new species</p>