

Access to H.E. National Programme Unit



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| Unit Title: | Plant Biology | | |
| Graded Unit Code: | GA33GEO09 | Ungraded Unit Code: | UA33GEO09 |
| Pathway(s): | Environmental Science and Health | | |
| Module(s): | Biology/Geography and the Environment | | |
| Level: | 3 | Credit Value: | 3 |
| Valid from: | 1 st August 2019 | Valid to: | 31 st July 2025 |

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

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

| LEARNING OUTCOMES | ASSESSMENT CRITERIA |
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| The learner will: | The learner can: |
| 1. Understand the organisational structure of plants | 1.1 Identify plant organelles and outline their role. |
| | 1.2 Identify and explain the function of the external organs of a plant |
| | 1.3 Describe three specialised plant cells and their role in photosynthesis. |
| 2. Understand the growth and development of plants and their physiological processes. | 2.1 Explain the relationship between photosynthesis and respiration |
| | 2.2 Explain the uptake of nutrients and transportation of water in plants. |
| | 2.3 Compare and contrast Asexual and Sexual reproduction in plants. |
| | 2.4 Outline the life cycles of an Asexually and Sexually reproducing plant. |

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| LEARNING OUTCOMES | ASSESSMENT CRITERIA |
|--|---|
| The learner will: | The learner can: |
| 2. Understand the relationship between plants and the ecosystem/environment. | 3.1 Analyse plant distribution and diversity in one or more habitats (e.g., Wetland, Sand Dunes, woodland). |
| | 3.2 Give examples of how plants have adapted to their environment. |
| | 3.3 Evaluate the effectiveness of strategies used in the UK, for replacing monocultures and non-indigenous plants during reforestation. |