

## Wild State Australian Curriculum Links

### Science 10

The following Australian Curriculum links have been identified for Year 10 school audiences:

Content Description	Wild State Elaboration/s
<p><b>Science Understanding</b></p> <p><b>Biological sciences</b></p> <p>The theory of evolution by natural selection explains the diversity of living things and is supported by a range of scientific evidence.</p> <p><a href="#">(ACSSU185)</a></p>	<p>Identify environmental factors that give rise to natural selection and speciation, such as the various microhabitats in the Rainforest environment.</p> <p>Identify relationships between changes in environment which affect natural selection including fragmentation and land clearing.</p>
<p><b>Science as a Human Endeavour</b></p> <p><b>Nature and development of science</b></p> <p>Scientific understanding, including models and theories, is contestable and is refined over time through a process of review by the scientific community.</p> <p><a href="#">(ACSHE191)</a></p>	<p>Examine the role of scientists working within Queensland Museum in discovering new species and understanding the complexity of life to ensure proper economic, ecological, political and social decisions are made about Queensland's unique animals and their habitats.</p> <p>Research the impacts of changes on the interrelationships of ecosystems.</p> <p>Discuss the range of research areas of scientists working at Queensland Museum.</p>
<p><b>Science as a Human Endeavour</b></p> <p><b>Nature and development of science</b></p> <p>Advances in scientific understanding often rely on developments in technology and technological advances are often linked to scientific discoveries.</p> <p><a href="#">(ACSHE192)</a></p>	<p>Recognise how technological advancements have enabled Queensland Museum scientists to better understand and monitor the health and development of species, including their ability to respond to changes within the environment.</p>

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#### Science as a Human Endeavour

##### Use and influence of science

People use scientific knowledge to evaluate whether they accept claims, explanations or predictions, and advances in science can affect people's lives, including generating new career opportunities.

[\(ACSHE194\)](#)

Consider the impacts of human activity, including evidence of climate change, on an ecosystem from a range of perspectives.

Recognise how aspects of science, engineering and technology are used within the varied career pathways of Queensland Museum scientists.

#### Science as a Human Endeavour

##### Use and influence of science

Values and needs of contemporary society can influence the focus of scientific research.

[\(ACSHE230\)](#)

Identify relationships between current scientific research themes, stakeholder interest and societal attitudes, values and beliefs towards the environment and resource use.

Consider how choices related to the use of renewable and non-renewable resources are influenced by environmental considerations and societal values, for example how scientific and technological advances have been applied to minimise pollution from industry.

#### Science Inquiry Skills

##### Evaluating

Critically analyse the validity of information in primary and secondary sources and evaluate the approaches used to solve problems.

[\(ACIS206\)](#)

Explore the pros and cons of current and/or future actions proposed by various groups and organisations to protect the environment.

Use evidence gained from primary and secondary sources to identify approaches that may be used to restore or maintain biodiversity within the local area.

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#### Science Inquiry Skills

##### Communicating

Communicate scientific ideas and information for a particular purpose, including constructing evidence-based arguments and using appropriate scientific language, conventions and representations.

[\(ACIS208\)](#)

Recognise how Queensland Museum's collections and contributions to scientific journals can communicate science information and document Queensland's unique flora, fauna and landscape.

Suggest various technologies used by Queensland Museum's scientists to investigate a range of scientific questions. These investigations may impact on other areas of society and involve ethical considerations.

# Wild State General Capabilities and Cross-Curriculum Priorities Links

## Science 10

### General Capabilities and Cross Curriculum Priorities

#### General Capabilities



#### Critical and creative thinking

- Inquiring – Identifying, exploring and organising information and ideas
- Generating ideas, possibilities and actions
- Reflecting on thinking and processes, analysing, synthesising and evaluation, reasoning and procedures



#### Personal and social capability

- Self-awareness
- Self-management
- Social awareness
- Social management



#### Ethical behaviour

- Understanding ethical concepts and issues
- Reasoning in decision making and actions
- Adopting values, rights and responsibilities



#### Intercultural understanding

- Recognising culture and developing respect for diversity
- Interacting and empathising with others
- Reflecting on intercultural experiences and taking responsibility



#### Literacy

- Comprehending texts through listening, reading and viewing
- Text knowledge
- Grammar knowledge
- Word knowledge
- Visual knowledge

#### Cross-Curriculum Priorities



#### Sustainability

- Consider the strong links between environment and survival of living things
- Human actions can play a vital part of meeting the needs of living things in man-made environments
- Suggest actions that can be taken to improve sustainable practices and support the provision of the basic needs of living things