



# FLOW Visitors Centre

## Australian Curriculum Links

## Queensland Curriculum Links

Peter van Gestel    49992831    peter.vangestel@fba.org.au  
Sharyn Lowth        49992806    sharyn.lowth@fba.org.au

Ground Floor, Old Post Office Building  
Cnr East Denham Streets  
PO Box 139 Rockhampton Q 4700

*Our country, Our future.*

Year	Subject	Strand	Content Description
------	---------	--------	---------------------

**Foundation**

Geography

**Geographical Knowledge and Understanding**

The Countries/Places that Aboriginal and Torres Strait Islander Peoples belong to in the local area and why they are important to them (ACHGK003)

The places people live in and belong to, their familiar features and why they are important to people (ACHGK002)

The reasons why some places are special to people, and how they can be looked after (ACHGK004)

The representation of the location of places and their features on maps and a globe (ACHGK001)

Technologies

**Design and Technologies**

Explore how plants and animals are grown for food, clothing and shelter and how food is selected and prepared for healthy eating (ACTDEK003)

Identify how people design and produce familiar products, services and environments and consider sustainability to meet personal and local community needs (ACTDEK001)

Geography

**Geographical Knowledge and Understanding**

The natural, managed and constructed features of places, their location, how they change and how they can be cared for (ACHGK005)

Technologies

**Design and Technologies**

Explore how plants and animals are grown for food, clothing and shelter and how food is selected and prepared for healthy eating (ACTDEK003)

Identify how people design and produce familiar products, services and environments and consider sustainability to meet personal and local community needs (ACTDEK001)

Geography

**Geographical Knowledge and Understanding**

The ways in which Aboriginal and Torres Strait Islander Peoples maintain special connections to particular Country/Place (ACHGK011)

History

**Historical Knowledge and Understanding**

The history of a significant person, building, site or part of the natural environment in the local community and what it reveals about the past (ACHHK044)

The importance today of an historical site of cultural or spiritual significance; for example, a community building, a landmark, a war memorial (ACHHK045)

Science

**Science Understanding**

Earth's resources, including water, are used in a variety of ways (ACSSU032)

Technologies

**Design and Technologies**

Explore how plants and animals are grown for food, clothing and shelter and how food is selected and prepared for healthy eating (ACTDEK003)

Identify how people design and produce familiar products, services and environments and consider sustainability to meet personal and local community needs (ACTDEK001)

History

**Historical Knowledge and Understanding**

The importance of Country and Place to Aboriginal and/or Torres Strait Islander peoples who belong to a local area. (This is intended to be a local area study with a focus on one Language group; however, if information or sources are not readily available

---

The role that people of diverse backgrounds have played in the development and character of the local community (ACHHK062)

---

Science

**Science as a Human Endeavour**

Science involves making predictions and describing patterns and relationships (ACSHE050)

---

Science knowledge helps people to understand the effect of their actions (ACSHE051)

---

Technologies

**Design and Technologies**

Investigate food and fibre production and food technologies used in modern and traditional societies (ACTDEK012)

---

Geography

**Geographical Knowledge and Understanding**

The custodial responsibility Aboriginal and Torres Strait Islander Peoples have for Country/Place, and how this influences their past and present views about the use of resources (ACHGK023)

The importance of environments to animals and people, and different views on how they can be protected (ACHGK022)

The natural resources provided by the environment, and different views on how they could be used sustainably (ACHGK024)

The types of natural vegetation and the significance of vegetation to the environment and to people (ACHGK021)

History

**Historical Knowledge and Understanding**

The diversity of Australia's first peoples and the long and continuous connection of Aboriginal and Torres Strait Islander Peoples to Country/ Place (land, sea, waterways and skies) and the implications for their daily lives. (ACHHK077)

Science

**Science as a Human Endeavour**

Science involves making predictions and describing patterns and relationships (ACSHE061)

Science knowledge helps people to understand the effect of their actions (ACSHE062)

Technologies

**Design and Technologies**

Investigate food and fibre production and food technologies used in modern and traditional societies (ACTDEK012)

Year	Subject	Strand	Content Description
<b>Year 05</b>			
	Geography	<b>Geographical Knowledge and Understanding</b>	The impact of bushfires or floods on environments and communities, and how people can respond (ACHGK030)
	Technologies	<b>Design and Technologies</b>	Investigate how and why food and fibre are produced in managed environments (ACTDEK021)
			Investigate how people in design and technologies occupations address competing considerations, including sustainability in the design of products, services and environments for current and future use (ACTDEK019)
<b>Year 06</b>			
	English	<b>Content Descriptions</b>	Understand how authors often innovate on text structures and play with language features to achieve particular aesthetic, humorous and persuasive purposes and effects (ACELA1518)
	Science	<b>Science Understanding</b>	The growth and survival of living things are affected by the physical conditions of their environment (ACSSU094)
	Technologies	<b>Design and Technologies</b>	Investigate how and why food and fibre are produced in managed environments (ACTDEK021)
			Investigate how people in design and technologies occupations address competing considerations, including sustainability in the design of products, services and environments for current and future use (ACTDEK019)

Year	Subject	Strand	Content Description
<b>Year 07</b>			
	English	<b>Content Descriptions</b>	Experiment with text structures and language features and their effects in creating literary texts, for example, using imagery, sentence variation, metaphor and word choice (ACELT1800)
	Geography	<b>Geographical Knowledge and Understanding</b>	The causes, impacts and responses to an atmospheric or hydrological hazard (ACHGK042)
			The classification of environmental resources and the forms that water takes as a resource (ACHGK037)
			The economic, cultural, spiritual and aesthetic value of water for people, including Aboriginal and Torres Strait Islander Peoples and peoples of the Asia region (ACHGK041)
			The ways that flows of water connect places as it moves through the environment and the way this affects places (ACHGK038)
	Science	<b>Science as a Human Endeavour</b>	People use understanding and skills from across the disciplines of science in their occupations (ACSHE224)
			Science understanding influences the development of practices in areas of human activity such as industry, agriculture and marine and terrestrial resource management (ACSHE121)
			Scientific knowledge changes as new evidence becomes available, and some scientific discoveries have significantly changed people's understanding of the world (ACSHE119)
		<b>Science Understanding</b>	Interactions between organisms can be described in terms of food chains and food webs; human activity can affect these interactions (ACSSU112)
			Water is an important resource that cycles through the environment (ACSSU222)
	Technologies	<b>Design and Technologies</b>	



**Year**

Subject

Strand

Content Description

Analyse how food and fibre are produced when designing managed environments and how these can become more sustainable (ACTDEK032)

---

**Year 08**

English

**Content Descriptions**

Create literary texts that draw upon text structures and language features of other texts for particular purposes and effects (ACELT1632)

---

Geography

**Geographical Knowledge and Understanding**

The aesthetic, cultural and spiritual value of landscapes and landforms for people, including Aboriginal and Torres Strait Islander Peoples (ACHGK049)

---

The different types of landscapes and their distinctive landform features (ACHGK048)

---

The geomorphic processes that produce landforms, including a case study of at least one landform (ACHGK050)

---

The human causes and effects of landscape degradation (ACHGK051)

---

The ways of protecting significant landscapes (ACHGK052)

---

Science

**Science as a Human Endeavour**

People use understanding and skills from across the disciplines of science in their occupations (ACSHE224)

---

Technologies

**Design and Technologies**

Analyse how food and fibre are produced when designing managed environments and how these can become more sustainable (ACTDEK032)

---

Geography

**Geographical Knowledge and Understanding**

The distribution and characteristics of biomes as regions with distinctive climates, soils, vegetation and productivity (ACHGK060)

The environmental, economic and technological factors that influence crop yields in Australia and across the world (ACHGK062)

The human alteration of biomes to produce food, industrial materials and fibres, and the environmental effects of these alterations (ACHGK061)

Science

**Science Understanding**

Ecosystems consist of communities of interdependent organisms and abiotic components of the environment; matter and energy flow through these systems (ACSSU176)

Technologies

**Design and Technologies**

Investigate and make judgments on the ethical and sustainable production and marketing of food and fibre (ACTDEK044)

Work Studies

**Skills for learning and work**

Investigate a wide range of occupations, and the skills and personal qualities required in these fields (ACWSCL006)

English

**Content Descriptions**

Create literary texts with a sustained 'voice', selecting and adapting appropriate text structures, literary devices, language, auditory and visual structures and features for a specific purpose and intended audience

---

Technologies

**Design and Technologies**

Investigate and make judgments on the ethical and sustainable production and marketing of food and fibre (ACTDEK044)

---

Work Studies

**Options Content Descriptions**

Collaborate with industry/business and/or community, individuals or groups to plan a work-related project (ACWOP040)

---

Biology

**Unit 1: Biodiversity and the interconnectedness of life**

Ecosystems are diverse, composed of varied habitats and can be described in terms of their component species, species interactions and the abiotic factors that make up the environment (ACSBL019)

Human activities (for example, over-exploitation, habitat destruction, monocultures, pollution) can reduce biodiversity and can impact on the magnitude, duration and speed of ecosystem change (ACSBL028)

Relationships and interactions between species in ecosystems include predation, competition, symbiosis and disease (ACSBL020)

Scientific knowledge can be used to develop and evaluate projected economic, social and environmental impacts and to design action for sustainability (ACSBL014)

Earth and Environmental S

**Unit 1: Introduction to Earth systems**

Development of complex models and/or theories often requires a wide range of evidence from multiple individuals and across disciplines (ACSES009)

Scientific knowledge can be used to develop and evaluate projected economic, social and environmental impacts and to design action for sustainability (ACSES014)

**Unit 3: Living on Earth - extracting, using and managing Ea**

Any human activities that affect ecosystems (for example, species removal, habitat destruction, pest introduction, dryland salinity) can directly or indirectly reduce populations to beneath the threshold of population viability at local, regional and glob

The availability and quality of fresh water can be influenced by human activities (for example, urbanisation, over-extraction, pollution) and natural processes (for example, siltation, drought, algal blooms) at local and regional scales (ACSES080)

**Unit 4: The changing Earth - the cause and impact of Earth**

Human activities, including land clearing, can contribute to the frequency, magnitude and intensity of some natural hazards (for example, drought, flood, bushfire, landslides) at local and regional scales (ACSES102)

Year	Subject	Strand	Content Description
			Major weather systems generate cyclones, flood events and droughts; the occurrence of these events affects other Earth processes and interactions (for example, habitat destruction, ecosystem regeneration) (ACSES101)
	Geography		
		<b>Unit 1: Natural and ecological hazards</b>	
			An overview of the nature of natural hazards (atmospheric, hydrological, and geomorphic) and ecological hazards (ACHGE012)
			The concept of risk as applied to natural and ecological hazards. (ACHGE013)
			The temporal and spatial distribution, randomness, magnitude, frequency and scale of spatial impact of natural and ecological hazards at a global scale (ACHGE014)
		<b>Unit 3: Land cover transformations</b>	
			A local initiative designed to address the effects of biodiversity loss or change. (ACHGE082)
			Human-generated land cover change and its consequences including: the competitive advantages of indigenous and introduced species; the balance within each of these groups; and the effects such changes might have on land cover changes and biodiversity (ACH
			Methods of projecting changes in land cover using spatial modelling, incorporating both environmental and socioeconomic variables. (ACHGE069)
			Overview: nature, extent, causes and consequences of land cover change
			The effects of biodiversity loss on ecosystem services and species, and ecosystem and genetic diversity. (ACHGE081)
			The impacts of land cover change on local and regional environments. (ACHGE072)
			The interrelationships between land cover change and biodiversity loss, for example, the processes of evolutionary diversification and species extinction and their implications for land cover in the future. (ACHGE080)
	Marine Science		
		<b>Conservation and sustainability</b>	
			CS1.1 For many cultural groups, marine environments are central to meeting nutritional, recreational and ceremonial needs (e.g. Aboriginal and Torres Strait Islander peoples, international communities).

Year	Subject	Strand	Content Description
			CS1.5 The location of commercial industries affect marine environments due to outputs (e.g. chemical toxicants,
			CS2.4 Increases in population density of coastal areas impact on the health of coastal water and should be carefully managed for sustainable outcomes (e.g. loss of mangroves, saltmarshes and seagrasses).
			CS2.5 Land management practices contribute to the health of marine ecosystems (e.g. siltation, algal blooms, agricultural practices).
		<b>Marine biology</b>	
			MB3.5 Marine and freshwater ecosystems interact through estuaries, with species adapting to environmental conditions (e.g. mangroves).
		<b>Oceanography</b>	
			OC3.5 Ocean acidification and increased ocean temperatures have the potential to alter the primary productivity of the ocean.
	Marine Studies		
		<b>Core topic 5: Oceanography</b>	
			12. factors affecting the movement and distribution of water pollutants
			13. the potential for pollution of the coastal zone
			14. basic chemical and physical properties of water and tests used to determine quality
			16. water pollution in the local environment
			17. the environmental tolerance of some marine organisms
			18. the process involved in environmental decision making.
			2. using various devices for collecting and analysing water
			21. the design and operation of a structure built to regulate water or sediment flow
			3. using accepted methods to test samples of water
		<b>Core topic 7: Managing marine resources</b>	
			13. traditional management methods used by Aboriginal and Torres Strait Islander communities.
			4. the conflict arising between community desires to preserve and to use marine systems

5. non-government groups that aim to protect or to promote the wise use of the marine environment

---

**Elective topic 2: Maritime history**

1. appreciation of the cultural values implicit in traditional uses of the sea

---

1. use of the sea by Aboriginal and Torres Strait Islander peoples

---

2. appreciation of the feats of early navigators.

---

4. contribution of shipping to the establishment of major Queensland towns and cities

---

**Elective topic 6: Pollution and local management issues**

1. balances in nature and the effects of pollution

---

5. pollution by mining, industry, agriculture, radioactive waste, construction sites, farming, domestic waste, accidents, plastics and other sources

---

6. chemical and biological tests to identify polluted water

---