



Teacher Program Overview

From Little Things, Big Things Grow – Year Four

Program Duration: 45 minutes

Minimum Participants: 10 students

Maximum Participants: 100 students

Program Overview:

This program aligns with the Australian Curriculum in the learning area of Science for Year Four students. Addressing the strand of biological sciences, students will develop their knowledge and understanding of marine animals, focusing on how living things have life cycles. During this program, students will gain an understanding of the variety of ways offspring are born (such as eggs or live young) and that offspring in early life stages don't always look similar to their parents. Using sharks and turtles as focus animals, students will compare life cycles of different species and will consider how environmental factors such as temperature can affect the various life stages of a species. Through making predictions about how humans can also impact animals' life cycles, students will use the knowledge gained through this program to understand the effect of their actions on the environment. Thinking sustainably, students will discuss what they can do to help protect marine animals and their environments.

Alignment with the Australian Curriculum:

SCIENCE

Science Understanding

Biological Sciences	Living things have life cycles (ACSSU072)
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Science as a Human Endeavour

Nature and development of science	Science involves making predictions and describing patterns and relationships (ACSHE061)
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Use and influence of science	Science knowledge helps people to understand the effect of their actions (ACSHE062)
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General Capabilities:

- Literacy
- Critical and Creative Thinking
- Personal and Social Capabilities
- Ethical Understanding

Cross-Curriculum Priorities:

- Sustainability

Additional Information:

Web Resources:

http://www.sheppardsoftware.com/scienceforkids/life_cycle/games.htm
http://teams.lacoe.edu/documentation/classrooms/judi/life/activities/cycles/life_cycles.html
<http://education.nationalgeographic.org/activity/monarch-butterfly-life-cycle-and-migration/>
<http://www.kidzone.ws/animals/lifecycle.htm>



Teacher Program Schedule

From Little Things, Big Things Grow – Year Four

Time

9.15am Arrival

The school will arrive promptly at 9:15am and will be met by a Marine Education Officer on the lawn next to the flagpoles out the front of Sea World.

9.20am Park Entry

The Marine Education Officer will lead the school group through the admissions gate to Shark Bay for the education program.

9.30am Education Program

This program is approximately 45 minutes, and will finish by 10:30am at the latest. Please note: selection of this program will prevent the school group from seeing the morning *Fish Detectives Sea Lion Show*.

10.30am Program Conclusion

At the conclusion of this session, students will be free to enjoy the park for the rest of the day, at the teacher's discretion.



Teacher Program Overview

The Hunger Games – Year Four

Program Duration: 45 minutes

Minimum Participants: 10 students

Maximum Participants: 100 students

Program Overview:

Year Four students will observe the inhabitants of Shark Bay to determine their interconnectedness with each other and their environment and how humans are interlinked to all life in marine ecosystems. This program aligns with the Australian Curriculum through the biological sciences strand of Science and the geography strand of Humanities and Social Sciences. Students will construct food chains, and identify the roles and relationships of animals within these food chains, to demonstrate how living things depend on each other and the environment to survive. The role of humans in marine food chains will be explored as students consider how marine animals are utilised by people for food and that there are differing views on how to sustainably manage fisheries. Students will predict and describe how overfishing has a flow on effect for all organisms within an ecosystem and they will learn about some positive human innovations to the practice of sustainable fishing. Finally, students will discuss how their activities may affect marine ecosystems and what actions they can take to live sustainably.

Alignment with the Australian Curriculum:

SCIENCE

Science Understanding

Biological Sciences	Living things depend on each other and the environment to survive (ACSSU073)
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Science as a Human Endeavour

Nature and development of science	Science involves making predictions and describing patterns and relationships (ACSHE061)
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Use and Influence of Science	Science knowledge helps people to understand the effect of their actions (ACSHE062)
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HUMANITIES AND SOCIAL SCIENCES

Inquiry and Skills

Questioning	Pose questions to investigate people, events, places and issues (ACHASSI073)
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Evaluating and Reflecting	Reflect on learning to propose actions in response to an issue or challenge and consider possible effects of proposed actions (ACHASSI081)
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Knowledge and Understanding

Geography	The importance of environments, including natural vegetation, to animals and people (ACHASSK088)
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	The use and management of natural resources and waste, and the different views on how to do this sustainably (ACHASSK090)
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General Capabilities:

- Literacy
- Critical and Creative Thinking
- Personal and Social Capabilities
- Ethical Understanding

Cross-Curriculum Priorities:

- Sustainability



Teacher Program Overview

The Hunger Games – Year Four

Additional Information:**Web Resources:**

<http://www.environment.gov.au/apps/coasts/discovery/who-eats-who/index.html>

<http://education.nationalgeographic.com.au/activity/coral-reefs-ecosystems-full-of-life/>

<http://education.nationalgeographic.com.au/activity/introduction-keystone-species/>

<http://education.nationalgeographic.com.au/activity/keystone-species-shark-bay/>



Teacher Program Schedule The Hunger Games – Year Four

Time

9.15am Arrival

The school will arrive promptly at 9:15am and will be met by a Marine Education Officer on the lawn next to the flagpoles out the front of Sea World.

9.20am Park Entry

The Marine Education Officer will lead the school group through the admissions gate to Shark Bay for the education program.

9.30am Education Program

This program is approximately 45 minutes, and will finish by 10:30am at the latest. Please note: selection of this program will prevent the school group from seeing the morning *Fish Detectives Sea Lion Show*.

10.30am Program Conclusion

At the conclusion of this session, students will be free to enjoy the park for the rest of the day, at the teacher's discretion.



Teacher Program Overview and Schedule

Environmental Issues

Year Level: All

Program Duration: 45 minutes

Min. Participants: 10 students

Max. Participants: 100 students

Program Overview:

Set in the underwater viewing gallery of Shark Bay, this program introduces students to the numerous ways humans are interconnected to the oceans and their inhabitants. Students of all year levels will engage in inquiry-based learning activities to discover how fishing activity, shark nets, marine debris and pollution are all contributing to loss of biodiversity and what actions can be taken personally and collectively to live sustainably and reduce our ecological footprint.

Additional Information:

**Program is not curriculum aligned*

Program Schedule

Time	
9.15am	Arrival
	Meet Marine Education Officer on lawn next to flagpoles out front of Sea World
9.20am	Park entry and transfer to Shark Bay
9.30am	Education Program
	Please note: selection of this program will prevent school from seeing morning Fish Detectives Sea Lion Show
10.30am	Program Conclusion
	At the conclusion of this session, students will be free to enjoy the park for the rest of the day, at the teacher's digression.



Teacher Program Overview and Schedule

Getting Smart About Sharks

Year Level: All

Program Duration: 45 minutes

Min. Participants: 10 students

Max. Participants: 100 students

Program Overview:

During this interactive program, students of all ages will learn about the amazing biology and ecology of sharks. Students will discover the variety of marine habitats where sharks live, what roles they occupy in their habitats and how they are equipped to survive in their environment. Specific adaptations covered will address how sharks move, hunt, protect themselves, rest and breathe. Students will consider how some human activities are threatening the survival of sharks and will discuss actions that can be taken individually and globally to help with conservation of these animals.

Additional Information:

**Program is not curriculum aligned*

Program Schedule

Time	
9.15am	Arrival
	Meet Marine Education Officer on lawn next to flagpoles out front of Sea World
9.20am	Park entry and transfer to Shark Bay
9.30am	Education Program
	Please note: selection of this program will prevent school from seeing morning Fish Detectives Sea Lion Show
10.30am	Program Conclusion
	At the conclusion of this session, students will be free to enjoy the park for the rest of the day, at the teacher's digression.



Teacher Program Overview and Schedule In Depth With Dolphins

Year Level: All

Program Duration: 45 minutes

Min. Participants: 10 students

Max. Participants: n/a

Program Overview:

During this interactive program, students of all ages will learn about the amazing biology and ecology of sharks. Students will discover the variety of marine habitats where sharks live, what roles they occupy in their habitats and how they are equipped to survive in their environment. Specific adaptations covered will address how sharks move, hunt, protect themselves, rest and breathe. Students will consider how some human activities are threatening the survival of sharks and will discuss actions that can be taken individually and globally to help with conservation of these animals.

Additional Information:

**Program is not curriculum aligned*

Program Schedule

Time	
10.30am	Arrival Advised latest entry time to park
11.00am	Affinity Dolphin Show Group to arrive at Dolphin Beach for 11:15am Affinity Dolphin Show
11.35am	Education Program Please note: selection of this program will prevent school from seeing morning Fish Detectives Sea Lion Show
12.20pm	Program Conclusion At the conclusion of this session, students will be free to enjoy the park for the rest of the day, at the teacher's digression.



Teacher Program Overview and Schedule

Paws, Claws and Roars

Year Level: All

Program Duration: 45 minutes

Min. Participants: 10 students

Max. Participants: 35 students

Program Overview:

This interactive program provides a broad overview of Polar bear biology and ecology for students of all ages. Students will learn where Polar Bears live, what role they occupy in their habitat and how they are equipped to survive in their environment. Specific adaptations covered will address how Polar bears move, hunt, protect themselves and maintain body temperature. Students will consider how some human activities are threatening Polar bears' survival and will discuss actions that can be taken individually and globally to help with conservation of this species.

Additional Information:

**Program is not curriculum aligned*

Program Schedule

Time	
9.15am	Arrival
	Meet Marine Education Officer on lawn next to flagpoles out front of Sea World
9.20am	Park entry and transfer to Polar Bear Shores
9.30am	Education Program
	Please note: selection of this program will prevent school from seeing morning Fish Detectives Sea Lion Show
10.30am	Program Conclusion
	At the conclusion of this session, students will be free to enjoy the park for the rest of the day, at the teacher's digression.



Teacher Program Overview and Schedule

The Real Deal With Seals

Year Level: All

Program Duration: 45 minutes

Min. Participants: 10 students

Max. Participants: n/a

Program Overview:

During this interactive program, students of all ages will learn about the fascinating biology and ecology of seals. Students will discover the variety of marine habitats where seals live, what roles they occupy in their habitats and how they are equipped to survive in their environment. Specific adaptations covered will address how seals move, hunt, protect themselves, rest, breathe and maintain body temperature. When available, a marine mammal trainer will deliver a short talk about training and animal care usually involving a brief training session with a seal. Students will consider how some human activities are threatening the survival of seals and will discuss actions that can be taken individually and globally to help with conservation of these animals.

Additional Information:

**Program is not curriculum aligned*

Program Schedule

Time	
9.45am	Arrival Advised latest entry time to park
10.00am	<i>Fish Detectives Sea Lion Show</i> Group to arrive at the Sea Lion Theatre for 10:15am <i>Fish Detectives Sea Lion Show</i>
10.35am	Education Program Please note: selection of this program will prevent school from seeing morning <i>Affinity Dolphin Show</i>
11.20pm	Program Conclusion At the conclusion of this session, students will be free to enjoy the park for the rest of the day, at the teacher's digression.