

Ever-changing Environments

Year 5



SCIENCE



GEOGRAPHY



Capacity

10 - 35 per session



1 Hour

This program will introduce students to the global issue of climate change with a focus on how it is impacting the survival of Polar bears. Ever Changing Environments aligns with the Australian Curriculum through all strands of Science, and the Geography, Economics and Business strands of Humanities and Social Sciences. The involvement of the sun's light and heat energy; the various land surfaces that absorb, reflect, and reradiate that energy; and the unique properties of atmospheric gases will be discussed in relation to the greenhouse effect that is necessary for life on Earth. Students will consider how human activities are enhancing the greenhouse effect and are contributing to the current period of global warming. This will be related back to Polar bears and how, despite specialised adaptations, their survival is threatened by climate change. Students will contemplate the difference between needs and wants and what choices we can make to better manage limited resources as a means of minimising our negative impact on climate change, Polar bears, and their environment.

PROGRAM SCHEDULE

9:05am Arrival

The school will arrive promptly at 9:05am and will be met by a Marine Education Officer at 9:15am out the front of Sea World Admission (Entry).

9:15am Pick-up & Park Entry

The Marine Education Officer will lead the school group through the admissions gate to Polar Bear Shores for the Education Program.

9:30am Education Program

10:30am Program Conclusion

At the conclusion of the program, students are free to enjoy the park for the rest of the day, at the discretion of the teaching staff.

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ALIGNMENT WITH THE AUSTRALIAN CURRICULUM - VERSION 9

General Capabilities

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

Cross-Curriculum Priorities

- Sustainability

SCIENCE

Science Understanding

Biological Sciences

AC9S5U01

- Examine how particular structural features and behaviours of living things enable their survival in specific habitats.

Physical Sciences

AC9S5U03

- Identify sources of light, recognise that light travels in a straight path and describe how shadows are formed and light can be reflected and refracted.

Science as a Human Endeavour

Use and Influence of Science

AC9S5H02

- Investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions.

Science Inquiry

Questioning and Predicting

AC9S5I01

- Pose investigable questions to identify patterns and test relationships and make reasoned predictions.

HUMANITIES AND SOCIAL SCIENCES

Knowledge and Understanding

Geography

AC9HS5K05

- The management of Australian environments, including managing severe weather events such as bushfires, floods, droughts or cyclones, and their consequences.

Skills

Questioning and Researching

AC9HS5S01

- Develop questions to investigate people, events, developments, places and systems.

Concluding and Decision-making

AC9HS5S06

- Propose actions or responses to issues or challenges and use criteria to assess the possible effects.