Teacher Program Overview
Marine Investigators – Year 9

Program Duration: 45 Mins + 1hr Snorkel
Location: Shark Bay
Minimum Participants: 8 Students + 1 Teacher
Maximum Participants: 48 Students

Program Overview:

During this program students will learn how reef ecosystems consist of communities of interdependent organisms. *Marine Investigators* aligns with the Australian Curriculum for the Science learning area, particularly addressing Science Inquiry Skills. A 45-minute session at Shark Bay's underwater viewing gallery will allow students to explore the roles and relationships of various marine creatures and identify examples of predation, competition, and mutualism. Through the Tropical Reef snorkelling program, which is inclusive of 20 minutes in the water, students will practice basic snorkelling skills in a safe, controlled environment. This program can be used to collect data for a class project or assessment task where students are required to formulate questions for investigation; collect and record data on provided underwater slates; draw conclusions consistent with recorded evidence; and evaluate the quality and usefulness of these conclusions.

*Please note that school groups participating in this program will be unable to attend the morning *Seal Guardians Presentation* and potentially the morning *Affinity Dolphin Presentation* depending on Snorkelling participation numbers.

Additional Information:

- An additional fee per person (including School Staff) will be charged for participation in the Tropical Reef Snorkel Program.
- To be eligible for the Tropical Reef Snorkel Program, students, school staff, and any accompanying adults must meet the program participation criteria and must each have a signed copy (by students' guardians where necessary) of the program waiver form to deliver to the Marine Education Officer upon entry into Sea World.
- Tropical Reef Snorkel program participants must bring swimmers and a towel.
- Underwater cameras are permitted and recommended for data collection in the Tropical Reef Lagoon by camera extension poles are not permitted – Please note, Sea World and its staff are not responsible for the security and/or well-being of any participants personal belongings.

Program Mapping
Marine Investigators – Year 9

Alignment with the Australian Curriculum V8.4	
SCIENCE	
Science Understanding	
Biological Sciences	Ecosystems consist of communities of interdependent organisms and abiotic components of the environment; matter and energy flow through these systems (ACSSU176)
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 (ACSHE160)
	Values and needs of contemporary society can influence the focus of scientific research (ACSHE228)
Science Inquiry	
Questioning and Predicting	Formulate questions or hypotheses that can be investigated scientifically (ACSIS164)
Planning and Conducting	Plan, select and use appropriate investigation types, including field work and laboratory experimentation, to collect reliable data; assess risk and address ethical issues associated with these methods (ACSIS165)
	Select and use appropriate equipment, including digital technologies, to collect and record data systematically and accurately (ACSIS166)
Processing and Analysing Data and Information	Use knowledge of scientific concepts to draw conclusions that are consistent with evidence (ACSIS170)
Evaluating	Evaluate conclusions, including identifying sources of uncertainty and possible alternative explanations, and describe specific ways to improve the quality of the data (ACSIS171)
General Capabilities:	
• Critical and Creative Thinking • Literacy • Intercultural Understanding • Ethical Understanding	• Personal and Social Capability • Digital Literacy • Numeracy
Cross- Curriculum Priorities:	
• Sustainability • Aboriginal and Torres Strait Islander History and Cultures.	

Marine Investigators – Year 9

Program Schedule

Time	
8.50am	**Arrival**
	The school will arrive promptly at 8:50am and will be met by a Marine Education Officer on the lawn next to the flagpoles out the front of Sea World.
9.00am	**Park Entry**
	The Marine Education Officer will lead the school group through the admissions gate to Shark Bay for the Education Program.
9.15am	**Education Program**
	A 45-minute lesson will serve to provide educational content and technical instruction for the snorkeling session.
10.05am	**Snorkelling Session/s**
	The first group of up to 12 snorkelling participants (inclusive of teachers) go to the Shark Bay tour meeting area for commencement of the Tropical Reef Snorkel session. This component of *Marine Investigators* runs for 50 minutes to an hour and involves: • 15-minute safety briefing and time to get changed; • 20-minute snorkel • 15 minutes to get changed back into dry clothes. If there are over 12 participants, collection times for subsequent sessions will be at half hourly intervals: • 10:05am for 10:15am Snorkel • 10:35am for 10:45am Snorkel • 11:15am for 11:15am Snorkel • 11:35am for 11:45am Snorkel Teachers should be dispersed between groups as necessary. The collection point for subsequent groups will be the Shark Bay tour meeting area.
10:30am	**Program Conclusion**
	If there is only one snorkel session, the program will conclude at approximately 11:15am and students will be free to enjoy the park for the rest of the day, at the discretion of school staff. In the instance of multiple snorkelling sessions, the final group will conclude approximately 1 hour after their snorkel collection time.