



INCORPORATING



Helping people to care for our ocean

uShaka Sea World Education Courses

MARINE ECOLOGY



Introduction to this Course

Marine Ecology is designed to look at Biospheres, biomes and ecosystems and all the biotic and abiotic factors that make up these functioning ecosystems. This course uses interactive teaching methods to excite learners through a variety of senses, and takes a creative look at ecology and human impacts. This course also includes an Aquarium guiding and Dolphin show. All material is linked to the CAPS curriculum and interlinks with conservation messages.

Conservation messages:

- Oceans are essential for life, they provide oxygen, food and regulate climate
- Coral reefs are under threat due to climate change
- Fish stocks are depleted due to over fishing – be the change, make sustainable choices
- Plastics don't litter – people do
- Care enough for us and the ocean
- Litter goes in the bin

General Programme:

9h00 – 9h10	Introduction
9h10 – 9h30	Presentation
9h30 – 11h00	Aquarium guiding
11h00 – 11h20	Tea
11h20 – 12h10	Dolphin show
12h10 – 12h30	Build an ecosystem & food webs
12h40 – 12h50	Ooey Gooey guts
12h50 – 13h00	Closing and evaluation



Lesson plan

Subject: Life Science

Grade: 10

Duration: 4 Hours

Strand: Environmental Studies

Topic: Biospheres to Ecosystems

Content: Biosphere, biome, ecosystems, biotic and abiotic

Energy flow; food chains and food webs and food pyramids

Ecotourism

Environmental issues – climate change, pollution and litter, over fishing

Activities:

Presentation

Build and ecosystem

Food webs

Food pyramids

Wet Lab

Ooey Goey guts