

# FET Phase: Grade 10 - 12



The Two Oceans Aquarium’s Education Centre has stimulating programmes designed to complement the work done in schools. Our activities are designed to lead learners to discover and learn about freshwater, coastal and marine environments. Should you wish your activity to be a different topic we would be happy to discuss your requirements and structure an activity accordingly.

## 1. Fish lesson



Constructing scientific knowledge about fish through investigation and dissection.

**Introduction to SASSI program.**

Learning Outcomes : LO 2

## 2. Sharks lesson



Cartilaginous fish: sharks and their relatives.

How are sharks similar and different to fish?

How are various sharks adapted to their environment?

The importance of sharks in the ecosystem.

Are sharks dangerous or endangered?

Learning Outcomes : LO 2

## 3. Invertebrates lesson



What are invertebrates?

Definitions, characteristics and habitats of various phyla of invertebrates.

A multi sensory approach to scientific classifications using various marine phyla and classes as examples (anemone, starfish, urchin, brittle stars, mussels, whelks, squid, barnacles and lobsters).

Learning Outcomes : LO 2

#### 4. Rocky Shore Ecology



What causes tides?

How do these changes influence the distribution of animals and plants in the rocky shore eco system – zonation?

Preparation for a rocky shore visit before you take your class to the seashore (you can also book us to do a follow up lesson at a rocky shore near you).

Learning Outcomes : LO 2 and 3

#### 5. Data collection lesson



What is the importance of collecting data?

How is this information used to improve population studies?

An activity geared at developing skills of conducting an investigation by measuring, recording, analyzing and interpreting data.

Introducing sustainable harvesting and some of the problems faced with in the fishing industry.

Learning Outcomes : LO 1, 2, 3, 4, 5

#### 6. Kelp holdfast ecology lesson



A hands on exploration of the fascinating animals to be discovered in a holdfast.

Pupils collect and classify these organisms into phyla and investigate how they are adapted to live in this environment.

Also discuss the ecology of a typical kelp forest.

Learning Outcomes : LO 1, 2, 3

#### 7. Biodiversity



This activity looks at geographical and biological diversity in out two oceans, incorporating a multi sensory investigation of some rock pool invertebrates (anemones, starfish, urchin, lobster and food chains).

Learning Outcomes : LO 2

## 8. Eco tourism in our two oceans



Specifically for students studying tourism - This activity looks at difference between the cold Atlantic and the warm Indian Oceans surrounding South Africa and how the effect the Ecotourism along our coast lines.

Also includes hands on study of some of our rock pool animals (anemones, starfish, urchin)

Learning Outcomes : LO 2