

Plants Systems

Stage 4 Science and Geography



Program Overview

During the full day program, the students will work scientifically to study three distinctive vegetation types at Bobbin Head.

Working collaboratively in small groups the students will rotate through three learning activities on the day at each of the three areas.

Learning Experiences

Mangrove Study and aquatic threats

Bobbin Head is home to two species of Mangrove. Students will be required to classify these species by examining each to identify and describe similarities and differences. They will also be required to explain how their features are adaptations for survival and reproduction in their environment.

Using the information they have learnt about Mangrove function, students will be required to identify and discuss threats to this ecosystem

Dry Sclerophyll Features

Using fieldwork equipment, the students will research the biophysical features, including aspect and soil pH, of the dry sclerophyll ecosystem. Using plant ID books, the students will then identify a sample of dry sclerophyll plants and explain how their features are adaptations for survival in their environment.

Rainforest

In the final activity, students will research the abiotic and biotic features of the remnant rainforest and use these findings to compare to the dry sclerophyll study site.

Key Syllabus Outcomes - Science

(NSW Syllabus for the Australian Curriculum)

SC4-4WS	identifies questions and problems that can be tested or researched and makes predictions based on scientific knowledge
SC4-6WS	follows a range of instructions to safely undertake a range of investigation types, collaboratively and individually
SC4-14LW	relate the structure and function of living things to their classification, survival and reproduction

Key Syllabus Outcomes - Geography

- 4.1 identifies and gathers geographical information
- 4.2 organises and interprets geographical information
- 4.4 uses a range of geographical tool
 - use various types of maps....
 - identify and use elements of maps....
 - locate features on a map....
 - identify physical and cultural features on a map
 - use the points of a compass to determine direction
 - use geographical instruments
 - collect and record data in the field
 - draw a line drawing