

# Plants in Action

## Muogamarra, Bobbin Head or West Head

### Stage 2 Science



## Program Overview

During a nature walk through one of Sydney's most diverse plants communities at either Muogamarra Nature Reserve (Terms 2 or 3) or Ku-Ring-Gai Chase National Park (Bobbin Head or West Head), students will view, learn about, photograph and draw Australia's unique plants. Learning will focus on pollination, plant structure, life cycles of flowering plants and Aboriginal uses of plants.

## Guiding Questions

1. What makes Australian plants unique?
2. What are the key features of Australian plants?
3. How important were plants to Aboriginal peoples?

## Learning Experiences

### Introduction to Basic Plant Photography

Set in a picturesque setting abounding with stunning native plants, students will learn the basics of plant photography. Concepts such as the rule of thirds, macro photography, camera angles, framing a shot and light will be explored. Students will then use iPads (supplied by your school or Gibberagong) to capture and edit stunning photographs. A digital copy of the photographs will then be returned to the school.

### Botanical Drawings

Students will sit in a special nature spot to study the form of native plants. Using watercolours (provided by Gibberagong), the students will draw and paint their chosen plant. This immersion experience provides each student with the opportunity to study the detail and

beauty of native plants in a natural setting. Artworks will be provided to the teacher to be taken back to school.

### Multi-Sensory Walk

Students will explore and learn about the myriad of plants species within the National Park. Plant cycles, parts of plants, pollination and interactions to environmental factors such as drought and fire will be discussed.

### Aboriginal Perspective of Native Plants

Aboriginal Peoples have an intimate knowledge of native plants for food, medicine, shelter etc. Muogamarra Nature Reserve and Ku-Ring-Gai Chase National Park have an amazing array of unique plants that have many uses. Students will identify, photograph and describe some of these plants in their natural setting.

## Key Syllabus Outcomes and Content

Note: This excursion is aligned with the Primary Connections Stage 2 unit Plants in Action.

### Science K-6

#### ST2-10LW

Living things have lifecycles.

Students:

- identify ways that the environment can affect the life cycle of plants and animals.

#### ST2-10LW

Living things, including plants and animals, depend on each other and the environment to survive.

- identify some factors in the local environment that are needed by plants and animals for survival.
- outline the relationship between plants and animals, including that plants are able to use light to make food, while animals must eat plants or other animals to obtain food.
- predict the effect of natural changes in the environment on some relationships between plants and animals, e.g. drought and fire.