

Kamay Botany Bay Environmental Education Centre

Excursion outline

Stage 4/5: From the Bay to Beyond

Science investigations

Syllabus Links

Science Syllabus Outcomes

Stage 4

SC4-14LW relates the structure and function of living things to their classification, survival and reproduction.

LW1 There are differences within and between groups of organisms, classification helps organise this diversity.

Stage 5

SC5-14LW analyses interactions between components and processes within biological systems.

LW2 Conserving and maintaining the quality and sustainability of the environment requires scientific understanding of interactions within the cycling of matter and the flow of energy through ecosystems.

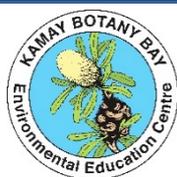
The excursion **From the Bay to Beyond** supports the Living World content strand of Stage 4/5 Science. **From the Bay to Beyond** allows students to gather first hand field work skills and experiences while learning about the unique ecosystems of Botany Bay. Students will perform measurement tasks and carry out activities that explore both the coastal rock platform and coastal woodland ecosystems. This unique program combines perspectives of traditional Aboriginal land management and sustainability integrated with hands on science skills and content.

Learning Activities:

In this program, students will describe adaptations of living things to factors in their environment; explore the effects of bushfire, drought and flood on Australian ecosystems, use keys to identify living organisms and scientific equipment to measure abiotic factors.

Classes will engage in the following activities:

- investigation of the woodland
- exploration of adaptations of living things to factors in their environment
- investigation of rocky platform
- discussion of some effects of bushfire, drought and flood on Australian Ecosystems
- using a key to identify living organisms
- discuss Aboriginal uses of natural resources used for food, medicine, tools and artifacts
- measuring abiotic factors of a marine and woodland ecosystem
- completing sketches of natural flora



Kamay Botany Bay Environmental Education Centre

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Education

Booking Information

Location	Kamay Botany Bay National Park, Kurnell
Bus booking	Drop off and pick up at The Visitor Centre, Kamay Botany Bay National Park
Timing	Ideally schools should allow 4 hours for the program, including meal and toilet breaks.
Bring	Medications, food, water, sunblock, hats and wet weather gear (nb the EEC is bin free, rubbish is to be taken home, however fruit scraps will be collected for worm farm).
Appropriate dress	Students should wear clothing/shoes suited to working in an outdoor environment and appropriate to the season.
Staffing	The EEC complies with NSW DEC policy for a student/adult ratio of 15:1 for bushwalking. Parent helpers welcome, no pre-schoolers.
Extreme or wet weather	May result in the excursion being modified, postponed or cancelled. An out of hours contact number will be supplied in your booking information.
Medical or special needs	Please notify EEC staff at time of booking
Risk Management Guidelines	Will be provided at the time of booking
Excursion Pack	Teacher background notes and digital worksheets will be provided (nb worksheets must be printed and brought on the day).
Expectations of visiting schools	<ul style="list-style-type: none"> • Visiting teachers will actively participate in all activities. • Whilst the EEC teacher is responsible for the general discipline of the day, the visiting teacher should be supportive and intervene if necessary if there is a difficulty with an individual student. • During recess and lunch breaks, both the visiting teacher and the EEC teacher are responsible for the control of the group. • Students should be reminded that all flora and fauna are protected and must not be damaged or disturbed.



Buses should drop off students in the designated bus bay, located near the EEC.

Buses should then move to the parallel parking bays on Solander Drive.

Buses generally take 10 minutes to drive from Kurnell to Cronulla High School.

Pre and Post activities

- locate the area to be visited on a Google map
- investigate the flora and fauna of the area
- plan to take photographs during your excursion to make a presentation/digital story back in your classroom
- Who were the scientists on board the Endeavour?
 - What were they studying? Why did they have an artist with him?
 - Imagine you are Joseph Banks, draw (and later paint) some of the flora that he collected at Kurnell.
- What was life like for Aboriginal and/or Torres Strait Islander peoples before the arrival of the Europeans?
- What was the nature and consequence of contact between Aboriginal and/or Torres Strait Islander peoples and Captain Cook? What was the consequence for the natural environment?