

## Booking Information

View available dates using the online

[Availability Calendar](#).

Contact the centre to make a booking.

### PRICE

DoE Schools: \$15/std

Non-DoE Schools: \$20/std

### CONTACT

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*Connecting every learner to the natural world and inspiring change for a sustainable future.*



## Module 4: Ecosystem Dynamics with Depth Study

**This is an authentic and rich first hand investigation on the population dynamics between two animals found locally - one native and one feral. Students investigate the inquiry question through studying the interactions of the Spotted-Tailed Quoll (*Dasyurus maculatus*) and Red Fox (*Vulpes vulpes*).**

Geographical Inquiry Questions

- What effect can one species have on the other species in a community?

Activities

**Abiotic Assessment** - Students conduct abiotic sampling including soil testing, vegetation identification and habitat surveys.

**Nest Box Survey** - Students analyse fauna diversity and abundance using camera trap technology and nest box investigation techniques.

**Citizen Science** - Students add their data to online citizen science databases including the Atlas of Living Australia and Hollows as Homes.

*This program includes 2 hours of pre-excursion research tasks, 5 hours of fieldwork and data collection, 2 hours of post-excursion processing, analysing and communicating tasks, and an optional assessment task.*

### Syllabus Outcomes & Content

Outcomes:

- develops and evaluates questions and hypotheses for scientific investigation BIO11/12-1
- designs and evaluates investigations in order to obtain primary and secondary data and information BIO11/12-2
- conducts investigations to collect valid and reliable primary and secondary data and information BIO11/12-3
- selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media BIO11/12-4

- analyses and evaluates primary and secondary data and information BIO11/12-5

- analyses ecosystem dynamics and the inter-relationships of organisms within the ecosystem BIO11-11

Content:

- Population Dynamics
- Future Ecosystems

Cross Curriculum Priorities

- Sustainability