

# Ecosystem Dynamics - Southern Brown Bandicoots

## Stage 6 Biology Module 4 and Depth Study

### Pre-visit Work Booklet

#### Inquiry Questions

What effect can Southern Brown Bandicoots have on other species in a community?

How can human activity impact on an ecosystem?

#### Fieldwork Inquiry Question

How do scientists determine where fox mitigation should take place to protect endangered species?

#### Context

To determine the suitability of a site to introduce fox mitigation, scientists must first learn about the animal and then find evidence of the presence of an endangered animal in an area.

#### Pre-visit Tasks

Complete the tasks on the following pages to ensure you are prepared for the fieldwork program.

- Examine the inquiry questions
- Investigate the features of Bobbin Head
- Research the Southern Brown Bandicoot
- Commence the planning of the investigation

A student resource page to assist you answer this information is located at

<https://gibberagongeec.nsw.edu.au/bandicoot-resource-hub/>



This information is to be completed prior to the visit. Visit <https://gibberagonggeec.nsw.edu.au/bandicoot-resource-hub/>



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**Scientific Name:**

**Colour the areas found in Australia:**

**Description**

**Status**

**Threats**

**Habitat**

**Protection Strategies**

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Souther Brown Bandicoot

[https://commons.wikimedia.org/wiki/File:Southern\\_Brown\\_Bandicoot\\_\(Isoodon\\_obesulus\)\\_2,\\_Vic,\\_jiron,\\_09.01.2013.jpg](https://commons.wikimedia.org/wiki/File:Southern_Brown_Bandicoot_(Isoodon_obesulus)_2,_Vic,_jiron,_09.01.2013.jpg)

## Structural Adaptations

Feature	How it helps the animal
brown fur	
backward facing pouch	
sharp claws	
long snout	

## Behavioural Adaptations

Feature	How it helps the animal
nocturnal	
aggressive, territorial	

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**Describe the location of Ku-ring-gai Chase National Park and Bobbin Head.**

**Describe the geography of the study area around Bobbin Head, including the natural features and land use.**

**Briefly describe how Bobbin Head has changed over the last 120 years.**

## Pre-visit Planning the Investigation

**What is the purpose of your investigation?**

**What techniques are used to sample SBB populations?**

**What are some of the features of bandicoot habitat?**

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<b>List three abiotic features of SBB habitat you could test for and what equipment would you need</b>	
Abiotic Features	Tests/Equipment

<b>List three biotic features of SBB habitat you could test for and what equipment would you need</b>	
Biotic Features	Tests/Equipment

**How will you manage data collection on the day?**

**How can you ensure reliability and accuracy of your data?**

**How do you plan to keep everyone safe?**