

The Earth's Environment

Tawny Tragedy

As urban Sydney sprawls in all directions, natural bushland is being replaced by houses and roads. This Geographical Inquiry will focus on the connections between people and nature by looking at the Tawny Frogmouth which was found dead at Brewongle Environmental Education Centre.

Inquiry Questions:

- How does the environment support the lives of people and other living things, for example the Tawny Frogmouth?
- How can people use places and environments more sustainably?



Health and Safety Issues

As you are working out in the field you need to be aware that:

- Ground material is often covered in moss and can be very slippery.
- Vines and dense undergrowth can trip.
- Fallen trees can be rotten and weak.
- Some animals can deliver painful or venomous bites.
- On slopes, rocks can be easily dislodged.

Outcomes

GE2-1: Examines features and characteristics of places and environments

GE2-2: Describes the ways people, places and environments interact

GE2-4: Acquires and communicates geographical information using geographical tools for inquiry

This excursion supports the teaching of The Earth's Environment unit.



Inquiry Aim:

The aim of this Geographical Inquiry is to investigate the Earth's environment, with a focus on the connections between people and nature. You will be researching the suspicious death of a Tawny Frogmouth which was found dead at Brewongle EEC in order to uncover its cause of death.

Pre Visit Tasks: The Tawny Frogmouth

Complete this section at school before your Brewongle Excursion

https://brewongleeec.com/resources/stage-3-resources/tawny-tragedy/

http://australianmuseum.net.au/tawny-frogmouth

http://www.parks.tas.gov.au/indeX.aspX?base=24031

Use the information and the video in the links above to write a paragraph describing the Tawny Frogmouth.
2. What do Tawny Frogmouths eat?
3. What type of habitat do Tawny Frogmouths live in?
4. What is the main threat to Tawny Frogmouths?
5. Can you think of another threat?



POLICE REPORT

Case Number: 534952	Date: 18 th July, 2025			
Reporting Officer: Snr Constable Michael Morton	Prepared By: Catherine Wilson			
Incident: Suspicious Death of <i>Podargus strigoides</i> at Brewongle Environmental Education Centre				

Detail of Event:

At approximately 6:30am yesterday morning, police received a call reporting the death of *Podargus strigoides*, a.k.a. The Tawny Frogmouth. The body of the bird was discovered that morning by the staff at Brewongle Environmental Education Centre. A staff member found the body lying prone near the bbq and immediately informed police. Police interviewed several people in relation to the mysterious death of *Podargus strigoides* and have provided the following information.

Interviews:

Zoe (The Cleaner):

"I saw Tawny drinking from the ponds two days ago and he appeared to be acting a little strangely".

Mr Atkins (The Gardener):

"I was setting traps for feral animals in the forest last night, when I saw Tawny swoop down at something in the leaf litter; he appeared clumsy and off-balance".

Mr Body (The Principal):

"I always enjoyed watching Tawny catch the moths as they circled our BBQ lights at night. Once, I even saw him catch a mouse as it tried to sneak into the house".

Mrs Kimari (The Teacher):

"I know that Tawny was angry about people calling him an owl, he insisted that he was not a member of the owl family".

Mrs Brown (The Administrative Manager):

"I saw strange footprints in the mud after it rained the other day, maybe this has something to do with it. It certainly wasn't me, I love owls".

Areas for Investigation:

Three areas of suspicion have been identified for further investigation: the sources of FOOD, WATER and SHELTER for the Tawny Frogmouth. The Crime Scene Investigation Team will conduct a thorough investigation into each area and report back at the conclusion of the day. Meanwhile, our forensic veterinarian will investigate blood samples of the bird.



Read the Police Report on page 3. Make a hypothesis about Tawny's cause of death. Provide evidence for (justify) your hypothesis.				

At Brewongle EEC: The Tawny Frogmouth

Suspect Checklist

At the conclusion of each investigation, indicate whether or not the suspect could have committed the crime.

SU	SPECT	HIGHLY SUSPECT	POTENTIAL SUSPECT	INNOCENT
Quality Water				
Water	Bugs			
Food	Zone 1 - Forest			
	Zone 2 - House			
Shelter	Natural Habitat			
Sileitei	Feral Animals			



Water – Physical & Chemical Tests

Did you know?

- The more turbid (dirty) the water, the higher the temperature
- The higher the temperature of the water, the lower the oxygen level

	RESULT	RESULT BETWEEN	SCORE	YOUR SCORE
		0 - 6°	2	
TEMPERATURE		7 - 11°	4	
		12 - 18°	10	
		19° +	2	
OXYGEN		0 – 2	0	
Fish need at least		3 – 4	4	
2 milligrams / litre		5 – 8	10	
to survive		9+	4	
		0 - 200	10	
SALINITY		201 – 300	8	
SALIMITI		301 – 500	5	
		501 +	2	
TOTAL SCORE				

SCORE RESULTS			
0 - 8	Highly Suspect		
9 – 15	Potential Suspect		
16 – 30	Innocent		



Water – Biological Tests

Did you know?

- Water bugs are a food source for fish, frogs and birds
- Water bugs are sensitive to their surroundings

		SCORE			SCORE
Back Swimmer	10-15mm	5	Water Boatman	8-10mm	5
Damsel-fly Nymph	15-25mm	6	Water Scorpion	25-50mm	3
Dragon-fly Nymph	25-50mm	5	Water Snail	5-8mm	2
Tadpole	10-20mm	10	Water Strider	5-12mm	4
Diving Beetle	5-45mm	6	Water Treader	5mm	4
		TO	TAL SCORE		

SCORE RESULTS				
0 -10	Highly Suspect			
11 – 25	Potential Suspect			
26 – 50	Innocent			



Food – Zone 1 (Forest)

Did you know?

Soil gives life to plants, without plants there

SOIL	RESULT	RESULT BETWEEN	SCORE	YOUR SCORE
		0 – 4	0	
Acid / Alkaline		5 - 8	10	
(pH)		8 +	0	
		0cm	0	
Leaf Litter		1 – 2cm	5	
		3 – 5cm	10	
		0	0	
Invertebrates		0 - 5	5	
		6 +	10	
TOTAL SCORE				

SCORE RESULTS			
0 -10	Highly Suspect		
11 – 15	Potential Suspect		
16 - 30	Innocent		

What was caught in the trap?



Food – Zone 2 (House)

Indicate with a tick $\sqrt{\ }$ if you observe one of these items

Potential Food Items Consumed by the Antechinus and Insects	Score	ITEM √
Bread	6	
Meat Scraps	8	
Fruit Scraps	2	
Garden Waste	4	
Bird Seed	10	
Plastics	10	
Paints	13	
Oils	10	
Poisons	15	
Chemicals	15	
Grass Clippings	3	
Paper	2	
TOTAL	SCORE	

SCORE RESULTS		
50+	Highly Suspect	
21 - 50	Potential Suspect	
0 - 20	Innocent	



Shelter – Predators

Feral Animals - Sketch the footprints you observe then use the ID Charts to identify the animals present.

Name	Name
Name	Name

SCORE RESULTS		
2+ feral animals	Highly Suspect	
1 feral animal	Potential Suspect	
0 feral animals	Innocent	



Shelter – Habitat

		SCORE	YOUR SCORE
Trees	Old	3	
	Medium	2	
	Young	1	
Shrubs	None	0	
	Some	1	
	Lots	2	
Ground	0 – 30%	1	
Cover	31 – 60%	2	
33131	61 – 100%	3	
	None	2	
Weeds	Some	1	
	Lots	0	
TOTAL SCORE			

SCORE RESULTS		
0 - 3	Highly Suspect	
4 - 6	Potential Suspect	
7 - 10	Innocent	



Post~visit tasks: The Tawny Frogmouth

Complete this section at school after your Brewongle excursion

1. Conduct an audit of the chemicals and waste found around your home.

Potential food Items consumed by native wildlife	Score	ITEM √
Bread	6	
Meat Scraps	8	
Fruit Scraps	2	
Garden Waste	4	
Bird Seed	10	
Plastics	10	
Paints	13	
Oils	10	
Poisons	15	
Chemicals	15	
Grass Clippings	3	
Paper	2	
	TOTAL SCORE	

SCORE RESULTS	
50+	Take Action!
21 - 50	Make Some Changes
0 - 20	Well Done



2. Use information from the websites below to create a timeline of the introduction and impacts of foxes in Australia.

http://www.dpi.nsw.gov.au/content/agriculture/pests-weeds/vertebrate-pests/pest-animals-in-nsw/fox-biology

http://agriculture.vic.gov.au/agriculture/pests-diseases-and-weeds/pest-animals/a-z-of-pest-animals/red-fox

3. Use information on the link below as well as other sources to research the effects of domestic pets on native wildlife. Conduct a class debate on the topic "People should not be allowed to have domestic pets in Australia".

http://www.environment.gov.au/resource/protecting-our-wildlife-responsible-pet-ownership

4. Create a short viral video (less than 1 minute) to educate the community on ways to reduce the impacts their pets have on native wildlife. Share your video with Brewongle EEC and we will help you send it viral!