



Toohey Forest
**Environmental
Education
Centre**

Learning Goals:

- **Recognise** the economic, social, ecological and political dimensions of sustainability in meeting needs of the current and future population
- **Identify** sustainable house design features suitable to the local climate
- **Contribute** collaboratively to groups during investigations and projects.
- **Plan and execute** a project in sustainable housing and / or design features

Inspiring Science Beyond the Classroom

Time	Activity
9.30 – 9.40 (10 mins)	Introduction to program and facilities
9.40 – 10.10 (30 mins)	Classroom Presentation / Activity Sustainability <ul style="list-style-type: none"> • Four Dimensions of Sustainability: ecological, social, political, economic • Ecological footprint • Sustainable living practices
10.10 – 11.00 (50 mins)	Self-Guided EcoCentre Building Tour (Sustainable Building) Benefits of a range of active and passive sustainable housing design features.
11.00 – 11.30 (30 mins)	First Break
11.30 – 11.50 (20 mins)	Sir Samuel Griffith Review (Sustainable Building) Compare active and passive design features of a second sustainable building at Griffith Uni
11.50 – 1.20 (1hr 30mins)	Design and build a sustainable house to a budget Small group activity where students build to reduce water, waste and energy consumption whilst maintaining biodiversity. Students will evaluate their home on completion.
1.20 – 1.40 (20 mins)	Second Break
1.40 – 2.20 (40 mins)	Investigation of house design features Use STELR equipment to measure, record and analyse the impact of either colour, insulation type or window type on the internal temperature of a house
2.20 – 2.30 (10 mins)	Farewell and Departure

Students will need:

- Covered footwear
- Sun safe clothing and hat
- Sunscreen and insect repellent already applied
- Water Bottle
- Morning Tea and Lunch
- Field booklet, Clipboard, Pencil

Litter Free Lunch

We encourage students and staff to pack a litter free lunch. A litter free lunch contains no throwaway packaging. Everything in it can either be re-used, composted or recycled. Therefore food is brought in re-usable containers rather than disposable plastic wrap. Drinks are brought in refillable plastic bottles. Pre-packaged foods are discouraged.