Itinerary: Land cover transformations: Invasive weeds



Learning Goals:

- **Explain** the geographical processes that result in particular physical features (e.g. forests) that shape the identity of places at the local level.
- **Interpret** land use maps to identify where changing land cover has had an impact on the biophysical environment in the local area.
- **Explain** geographical processes that have contributed to land cover change in a local area, including anthropogenic process and natural processes.
- Use a conceptual model to identify a local land challenge.
- Conduct a field study to collect primary data for investigating a land management challenge on a local scale.

Time	Activity
9.00–9.15 (15 mins)	Introduction to staff and facilities
9.15–9.30 (15 minutes)	Lesson goals, key terms and outline activities
9.30–10.10 (40 minutes)	Plant Identification: Samples of local native plants and weeds, identified using a plant identification booklet
10.10–10.35 (25 mins)	First Break
10.35–12.55 (2 hours 20 mins)	Equipment Use: Review of quadrats and group task requirements Quadrat Studies — collect and record biotic and abiotic data (temperature, light, pH, soil composition and moisture etc), forest condition scores.
12.55–1.20 (25 mins)	Lunch
1.20- 2.20 (40 mins)	Data Analysis & Conclusion: Share/collate data and calculation of Simpson's Diversity Index, comparison of sites in terms of biodiversity and health, human impacts and long-term sustainability of biodiversity, invasion triangle
2.20-2.30 (10 mins)	Farewell and Depart

Students will need:

- Long pants light weight in summer
- 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.

