



Environmental Education Program at Darebin Parklands



Matching Environmental Education Program (EEP) to students needs

This is broken into three sections;

- A. Linking Parklands EEP with Curriculum Standards Framework (CSFII);
- B. Other subjects you may teach.
- C. EEP at Darebin Parklands.

A. Linking topics with Curriculum

Some of the links between the Environmental Education Program and the curriculum are plain to see, others a little less obvious. I have selected a few here from levels 5 and 6 (Years 7-10) from the SOSE CSF that you can easily see during a brief visit to Darebin Parklands.

If you are planning a unit and are interested in a park visit, I am happy to discuss any elements of the park that we can fit into your programming. For junior secondary school, rather than focusing on particular CSF outcomes we would like you to encourage you to consider a more general approach to the topics listed (those relating to geography) and try to incorporate them together. A good example here is the lack of scope within CSF outcomes on the historical points of interest within the park. This will give students a broader picture of the management of urban parklands. Many students are here for an outdoor experience and learn simply by being outside.

Level 5

- 5.1 Compare the characteristics of significant regions in Australia and the world
- 5.2 Explain how natural processes and human activities change environments.
- 5.3 Explain how people's use of natural and human environments change over time.
- 5.4 Develop a plan to address impacts of change

Level 6

- 6.1 Explain the processes and interactions between people and major systems.
- 6.2 Evaluate how different factors affect the distribution and dynamics of human population

- 6.3 Predict the effects of resource development and use on a selected natural and human environment
- 6.4 Develop a comprehensive strategy to resolve an issue related to the use and management of a natural or human environment.

B Other subjects you may teach.

Environmental Science

Unit 1: Understanding Nature

Areas of Study

Humans and nature

Natural environments

Outcome 1. On completion of this unit the student should be able to describe ways in which humans understand, encounter and respond to nature.

Outcome 2. On completion of this unit the student should be able to explain the interrelationships between components of natural environments and changes that occur in natural environments.

Unit 2: Environmental Impacts

Areas of Study

Impact on people

Impact on nature

Outcome 1. On completion of this unit the student should be able to explain factors which influence outdoor experiences and their impact on nature.

Outcome 2. On completion of this unit the student should be able to analyse policy and procedures for minimizing human impact on natural environments.

Unit 3: Relationships with outdoor environments

Areas of Study

Changing perceptions of outdoor environments

Contemporary views of outdoor environments

Outcome 1. On completion of this unit the student should be able to analyse how particular perceptions and relationships have influenced an outdoor environment.

Outcome 2. On completion of this unit the student should be able to explain the evolution of human-nature relationships and their impact on the contemporary outdoor environment.

Unit 4: The future of natural environments

Areas of Study

Interacting with outdoor environments

Sustaining outdoor environments

Outcome 1. On completion of this unit the student should be able to evaluate practices and strategies for the sustainable interactions of humans and outdoor environments.

Outcome 2. On completion of this unit the student should be able to evaluate processes of decision making which affect the use and sustainability of outdoor environments.

C. EEP at Darebin Parklands

Unit 1: The environment

Areas of Study

Ecological components and interaction

Environmental change

Outcome 1. On completion of this unit the student should be able to identify and describe the components and natural processes within the environment.

Outcome 2. On completion of this unit the student should be able to explain the flow of energy, nutrient exchange and environmental changes in ecosystems.

Outcome 3. On completion of this unit the student should be able to analyse one human-induced environmental change and the options for remediation.

Unit 2: Monitoring the environment

Areas of Study

Environmental indicators

Using environmental indicators

Outcome 1. On completion of this unit the student should be able to explain the nature of environmental indicators for pollution and ecological health of ecosystems

Outcome 2. On completion of this unit the student should be able to investigate and report on a local example of environmental degradation or environmental issue, using an appropriate monitoring program.

Outcome 3. On completion of this unit the student should be able to analyse the scientific basis and use of standards for environmental indicators for pollution control and ecological health of ecosystems.

Unit 3: Ecological issues: energy and biodiversity

Areas of Study

Energy and global warming

Diversity in the biosphere

Outcome 1. On completion of this unit the student should be able to describe the principles of energy and relate them to the contribution of a fossil and non-fossil energy source to the greenhouse effect.

Outcome 2. On completion of this unit the student should be able to describe the characteristics of biodiversity and evaluate strategies to reduce the effects of threatening processes.

Outcome 3. On completion of this unit the student should be able to analyse the application of scientific data to environmental risk assessment in ensuring biodiversity

Unit 4: Ecological sustainability

Areas of Study

Pollution and health

Applied environmental science

Outcome 1. On completion of this unit the student should be able to describe the characteristics of one pollutant and evaluate management options for reducing the risk of the pollutant affecting the health of the environment and humans

Outcome 2. On completion of this unit the student should be able to use the principles of ecologically sustainable development and environmental management to evaluate a selected environmental science project