



## Secondary school Education program



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### Cross-curriculum priorities: sustainability

The modules developed for the kNOw Waste™ secondary school education program combine several strands of the Australian Curriculum from year 7 to year 12 in both cross-curriculum priorities and stage-specific outcomes. The Australian Curriculum places emphasis on sustainability as a priority for study that connects and relates relevant aspects of content across learning areas and subjects.

#### Cross-curriculum learning is fundamental to:

- understanding the ways social, economic and environmental systems interact to support and maintain human life
- appreciating and respecting the diversity of views and values that influence sustainable development
- participating critically and acting creatively in determining more sustainable ways of living.

Through sustainability education students develop the knowledge, skills, values and world views necessary to contribute to more sustainable patterns of living.

#### CODE ORGANISING IDEAS

##### Systems

OI.3 Sustainable patterns of living rely on the interdependence of healthy social, economic and ecological systems.

##### World views

OI.4 World views that recognise the dependence of living things on healthy ecosystems, and value diversity and social justice, are essential for achieving sustainability.

OI.5 World views are formed by experiences at personal, local, national and global levels, and are linked to individual and community actions for sustainability.

##### Futures

OI.6 The sustainability of ecological, social and economic systems is achieved through informed individual and community action that values local and global equity and fairness across generations into the future.

### Secondary school booking form

School: \_\_\_\_\_ Name: \_\_\_\_\_

Address: \_\_\_\_\_ Email: \_\_\_\_\_

Number of classes: \_\_\_\_\_ Number of students in each class: \_\_\_\_\_ Stage level: \_\_\_\_\_

Lesson of interest: \_\_\_\_\_ Preferred date and time: \_\_\_\_\_

## Wastescapes

Best suited for:  
**Geography**

This module looks at the history of waste management and why issues such as climate change and increased consumption have impacted on current waste disposal trends. How has the landscape been changed by the use of landfill as a waste disposal system and what alternative waste technologies are available? Students will be asked to consider social, environmental, political and economic factors to explore waste disposal technologies and the possibilities of their applications in Australia.

Strand: (ACHGK044) (ACHGK051) (ACHGK070)

## Earth Systems

Best suited for:  
**Science & Agriculture**

More than half the waste we throw away is organic. When organic materials decompose in the earth, biotic and abiotic processes are involved but the end product is influenced by the disposal methods we use. Students will learn why sending biodegradable waste to landfill is actually contributing to climate change. They will also examine different organic waste disposal options, from composting and worm farming, to advanced waste technologies that create "green electricity".

Strand: (ACSHE120) (ACSSU112) (ACSSU176)

## Sustainable Shopping

Best suited for:  
**Commerce**

What do we consume? What do we throw away? Why do we care about the environment? This module focuses on the effects wasteful packaging can have on the environment, different stakeholder's opinions about waste, and the forces driving widespread recycling. Students will explore and critique commonly purchased goods and their packaging. They may also examine the ethics and social implications of the different levels of decision making involved in product development and consumption.

Strand: (ACHEK017) (ACHEK029) (ACHEK041)

## Materials Matter

Best suited for:  
**Science**

We see recyclables every day, but where do these materials come from and how long will they last? Can we "close the loop" by recycling them? This module focuses on the importance of conserving natural resources by using our household recycling bins. Students are introduced to the specialised technologies and processing systems that are used to recycle materials.

Strand: (ACSHE120) (ACSSU116)

## Binwise

Best suited for:  
**Commerce**

Your council has a comprehensive waste service which involves more than just presenting your bins on the kerb for collection. A range of specialised systems are used in processing the different waste streams. Students learn about the people and processes that make the system work and discover how they can contribute to make the service more effective.

Strand: (ACHEK017)

## Litter, Litter Everywhere

Best suited for:  
**Science & Geography**

Littering in the school is part of a wider environmental problem. Students will conduct a school based investigation that establishes where litter is found and where it could end up. Students will also develop solutions to the problem, helping to develop a culture of responsible and environmentally sustainable young adults.

Strand: (ACSHE120) (AC SIS140)

**All this is FREE to secondary schools in your local council area!**