

LESSON OVERVIEW

In this lesson students will explore what illegal dumping is and how it affects the natural environment. Students will investigate the ways in which their local council prevents illegal dumping with a strong focus on the kerbside collection program. They will use the game *Kerbside Cleanup* to reinforce what items are acceptable to include in a kerbside collection.



LEARNING INTENTION



STUDENTS WILL:

- Learn about illegal dumping and how it affects the environment.
- Investigate the ways in which their local council prevents illegal dumping.
- Learn about the process involved in a kerbside collection and what materials and resources are acceptable to include.

RESOURCES



- Image of a clean park
- Image of a park with evidence of illegal dumping
- *Kerbside Cleanup* game
- Interactive Whiteboard
- Local council website
- Devices for research and digital poster design
- <http://camden.nsw.gov.au/environment/waste-environment/>
- <http://www.campbelltown.nsw.gov.au/RSF/ServicesandFacilities/WasteandRecycling>
- <http://wollondilly.nsw.gov.au/resident-services/waste/>

ASSESSMENT

A rubric has been provided to track and evaluate student understanding. The learning outcomes will be assessed throughout the lesson using discussion, questioning, reflection and a scientific investigation.



AUSTRALIAN CURRICULUM LINKS

KEY LEARNING AREA:

GEOGRAPHY

The role of local government and the decisions it makes on behalf of the community (ACHASSK091)

HEALTH AND PHYSICAL EDUCATION

Identify and practise strategies to promote health, safety and wellbeing (ACPPS036)

Describe strategies to make the classroom and playground healthy, safe and active spaces (ACPPS040)

SCIENCE AND TECHNOLOGY

Living things depend on each other and the environment to survive (ACSSU073)

Natural and processed materials have a range of physical properties that can influence their use (ACSSU074)

Earth's surface changes over time as a result of natural processes and human activity (ACSSU075)

MATHEMATICS

Compare the areas of regular and irregular shapes by informal means (ACMMG087)

ENGLISH

Incorporate new vocabulary from a range of sources into students' own texts including vocabulary encountered in research (ACELA1498)

Interpret ideas and information in spoken texts and listen for key points in order to carry out tasks and use information to share and extend ideas and information (ACELY1687)

Use interaction skills such as acknowledging another's point of view and linking students' response to the topic, using familiar and new vocabulary and a range of vocal effects such as tone, pace, pitch and volume to speak clearly and coherently (ACELY1688)

Plan, rehearse and deliver presentations incorporating learned content and taking into account the particular purposes and audiences (ACELY1689)

Use a range of software including word processing programs to construct, edit and publish written text, and select, edit and place visual, print and audio elements (ACELY1697)

CROSS-CURRICULUM PRIORITIES

Sustainability

GENERAL CAPABILITIES

Literacy

Numeracy

Personal and social capability

Critical and creative thinking

Ethical Understanding



21ST CENTURY LEARNING SKILLS

CRITICAL THINKING



Students are encouraged to think critically about the issue of illegal dumping and the strategy of a kerbside collection that local councils put in place. Students will research ways in which their local council educates their residents to prevent illegal dumping.

COMMUNICATION



Students are encouraged to actively engage in discussions throughout the lesson which will provide opportunity for questioning and sharing of experiences.

COLLABORATION



Students are required to work collaboratively in groups to research their local council's process for kerbside collection. Students are then asked to create a digital poster to educate their school community. This will provide opportunities for students to share in their range of skills and expertise while working in a group setting.

CREATIVITY



Students are asked to design and create a digital poster that will help educate their school community in the importance of following the correct kerbside collection process and prevent illegal dumping. The winning design can be published in the school newsletter.

VOCABULARY

Illegal dumping, prevent, kerbside collection, dispose, waste, avoidance, reuse, recycle, educate, community.



25 mins

1 Show students an image of a beautiful clean park. Ask students to describe what they can see. How does it make them feel?

2 Show students a second image of a park that has evidence of illegal dumping. Ask students:

Describe what you can see in the second image, how is it different from the first park we viewed?

What emotions do you feel while you look at the second image?

Why do you think you had a change of emotions?

Can you share an example of where you have experienced seeing piles of rubbish in areas such as parks or bushland?

3 Explain that this is called illegal dumping. Illegal dumping is the depositing, dumping, tipping or otherwise of items larger than litter onto land or into water. Illegal dumping varies from small bags of items to larger scale dumping in isolated areas such as bushland.

4 Discuss some of the issues that are caused by illegal dumping:

Risk to our health and wellbeing.

Contamination of landscapes and waterways by poisoning plants and wildlife.

Pollution of public places making undesirable for people to use.

Pose as a fire risk.

Devalues land and surrounding properties.

1 Show students images of commonly dumped items such as furniture, mattresses, and white goods. Ask students if they know the correct way to dispose of some of the items?

2 Explain that your local council (Camden, Campbelltown or Wollondilly) will have strategies in place to try to stop illegal dumping. Kerbside collection is an important strategy that councils use in order to help residents dispose of materials that are too bulky for the normal waste and recycling collection. It is important to be aware of the rules and requirements of your local kerbside collection.

3 Introduce students to the game Kerbside Cleanup using an Interactive Whiteboard. As a whole class test your knowledge about which items are acceptable in the collection. There will be opportunities for discussion throughout the gameplay.

4 Break students up into groups of 3-4. Students are required to use their local council's website (Camden, Campbelltown or Wollondilly) to research and answer the following questions:

How much space can you take up for your kerbside collection?

What items are acceptable to include in the kerbside collection?

What items are unacceptable in the kerbside collection, why?

When can you start putting items in the collection?

What happens if you forget or miss the collection?



- 5 Challenge groups to come up with a digital poster that will help educate the school community in the importance of following the correct kerbside collection process and prevent illegal dumping. This could be run as a competition where the winning design will be published in the school newsletter.



PLENARY

10 mins

- 1 Groups present their digital posters to the class, this will allow for students to share their knowledge and reinforce learning intentions.
- 2 Challenge students to play **Kerbside Cleanup** again and see if they have improved their knowledge on what items are allowed to be included in the collection.

HOMEWORK ACTIVITY

Challenge family members in playing **Kerbside Cleanup!** Who can get the highest score?

Have you ever heard of the expression **"one man's trash is another man's treasure?"** A lot of the items that people throw out during their kerbside collection are unwanted items. This means that they could still be useful to other people. In order to look after our environment, we should be looking to reduce the amount of waste we throw out by reusing items.

Brainstorm three alternative ways for reusing or recycling some items that are put into the kerbside collection, examples:

- *Repair broken items where it is safe to do so and share unwanted items with local community organisations.*
- *Donate unwanted clothing to charities.*



ASSESSMENT RUBRIC – KERBSIDE CLEANUP LESSON

Student understanding of illegal dumping what impacts it has on the natural environment.

- 4 Student demonstrates an exceptional understanding of illegal dumping and the impacts it has on the natural environment. Students can link learning to real life examples.
- 3 Student demonstrates strong understanding of illegal dumping and the impacts it has on the natural environment. Students can link learning to real life examples.
- 2 Student demonstrates a satisfactory understanding of illegal dumping and the impacts it has on the natural environment.
- 1 Student demonstrates a basic understanding of illegal dumping and the impacts it has on the natural environment.

Student understanding of their local council's process during a kerbside collection.

- 4 Student demonstrates an exceptional understanding of how their local council conducts a kerbside collection with clear links to reliable research sources.
- 3 Student demonstrates a strong understanding of how their local council conducts a kerbside collection with clear links to reliable research sources.
- 2 Student demonstrates a satisfactory understanding of how their local council conducts a kerbside collection with links to research.
- 1 Student demonstrates a basic understanding of how their local council conducts a kerbside collection.

Student understanding is clearly reflected in digital poster.

- 4 Student creatively designs a digital poster that clearly and effectively communicates important messages about kerbside collections and illegal dumping to their school community.
- 3 Student creatively designs a digital poster that clearly communicates important messages about kerbside collections and illegal dumping to their school community.
- 2 Student creatively designs a digital poster that communicates some messages about kerbside collections and illegal dumping to their school community.
- 1 Student creatively designs a digital poster that communicates basic messages about kerbside collections and illegal dumping to their school community.

ASSESSMENT RUBRIC – KERBSIDE CLEANUP LESSON

Visual appeal of the digital poster is creative, original and unique.

- 4 Digital poster demonstrates outstanding evidence of engaging audiences and promoting key messages through visual elements and design.
- 3 Digital poster demonstrates strong evidence of engaging audiences and promoting key messages through visual elements and design.
- 2 Digital poster demonstrates satisfactory evidence of engaging audiences and promoting key messages through visual elements and design.
- 1 Digital poster demonstrates basic evidence of engaging audiences and promoting key messages through visual elements and design.

Evidence of Teamwork.

- 4 Digital poster reflects outstanding evidence of teamwork in the design, creation and associated learning.
- 3 Digital poster reflects strong evidence of teamwork in the design, creation and associated learning.
- 2 Digital poster reflects satisfactory evidence of teamwork in the design, creation and associated learning.
- 1 Digital poster reflects basic evidence of teamwork in the design, creation and associated learning.

