Teacher Resource **Bin Audit**

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O Focus Questions

- 1. What was the main point of the BTN Bin Audit story?
- 2. Between 2016 and 2017 how much waste did each person in Australia produce?
- 3. What is a bin audit?
- 4. Why did the results of the bin audit disappoint Rob?
- 5. What is a landfill site? Describe and then illustrate.
- 6. What happens when organic waste ends up in landfill?
- 7. Complete the following sentence. Methane is a greenhouse gas which traps heat in the _____.
- 8. What percent of global methane emissions are caused by organics in landfills?
- 9. What things can go in the organics recycling bin? Make a list.
- 10. What was surprising about this story?

Activity

Class Discussion

After watching the BTN story, hold a class discussion about the impact rubbish has on our environment. Below are some suggestions to help guide discussion.

- landfill
- increased greenhouse emissions
- waterways become polluted
- animals become tangled in or mistakenly eat rubbish found in the ocean

Activity

Brainstorm

As a class, brainstorm all the different types of waste created at your school, for example:

- Paper
- Plastic lunch wrappers, drink containers
- Food scraps
- Plant clippings
- E-waste mobile phones, computer screens
- Batteries
- Printer cartridges



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Students will learn more about the correct way to dispose of different items of waste.

Curriculum

Geography - Year 4

The use and management of natural resources and waste, and the different views on how to do this sustainably.

HASS – Year 4

Reflect on learning to propose actions in response to an issue or challenge and consider possible effects of proposed actions.

HASS - Year 7

Reflect on learning to propose personal and/or collective action in response to an issue or challenge, taking into account different perspectives, and describe the expected effects.

The use and management of natural resources and waste, and the different views on how to do this sustainably.

Science – Year 4

Science knowledge helps people to understand the effect of their actions.

Science – Year 5 & 6

Scientific knowledge is used to solve problems and inform personal and community decisions.

Science – Year 7

Scientific knowledge has changed peoples' understanding of the world and is refined as new evidence becomes available.





Glossary

Students will brainstorm a list of key words and terms that relate to the BTN *Bin Audit* story. Here are some words to get your students started.

Waste	Audit	Landfill
Recycle	Compost	Contaminate

Activity

Waste Hierarchy

The waste hierarchy is a guide to help minimise waste. Discuss with students the different elements of the waste hierarchy and what they mean. Brainstorm a list of actions or practices that can be done for each element to reduce the amount of rubbish going to landfill.

Rethink – think about what you are buying and consuming Refuse – say no to unnecessary things (packaging etc.) Reduce – the amount of material that will go to landfill Reuse – many items can be reused or upcycled Recycle – choose items that can be recycled Compost – organic waste can be put into green waste bins or home compost bins Landfill – send as little waste as possible to landfill

More information about the waste hierarchy can be found at the <u>Wipe Out Waste website</u>



Source: Wipe Out Waste website

Activity

Which is the right bin?

This interactive game helps students to understand the correct way to dispose of household items. Students make their way through six rooms and look for flashing stars that indicate which items need to go in the bin. They decide which items need to go in landfill, can be recycled, placed in an organics bin or require special collection. Ask students to think of other things at their home that need to be disposed of. Which bin do they go in? Do the bins in this game match the ones they have at home?







Take action

Discuss with students what their school already does to reduce waste. For example, their school might have recycling programs, rubbish audits or clean up days. Does their school have an Environmental Management Plan? In small groups, ask students to brainstorm how their school could improve what it already does to reduce waste.

- Make a list of new ways that your school could reduce the amount of waste it creates and new ways that you can deal with the waste it creates.
- Share and compare your ideas with the class.
- Choose 1 of your ideas to present to your SRC or the school leadership team.

Here are some suggestions:

- Hold a zero-waste day
- Hold your own school's clean-up day
- Start a school compost or worm farm
- Audit rubbish created in one day
- Nude food days
- Contact your local council or other schools in your area to find out what they are doing to reduce waste.

Reflection

- What did you find interesting?
- What was challenging?
- What did you enjoy about this activity?
- What worked well?
- What would you do differently next time?

Activity

Waste as Art

Students will explore ways to reuse plastic to create a piece of art or something useful. Discuss with students the benefits of reusing plastic to create objects. Here are some suggestions:

- Reduces the amount of waste and therefore landfill
- Reduces the need for production using new or raw materials
- Saves money

Below are examples of ways plastic bottle tops can be used to create a mosaic artwork or soft drink bottles can be transformed into a vertical garden and pot planters. For more great ideas for reusing plastic bottles, go to the <u>deMilked</u> <u>website</u> or watch the <u>Make pot planters from plastic bottles video</u> on the ABC Education website.





Source: deMilked







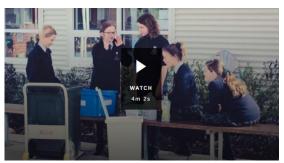


Source: deMilked

Activity

BTN Waste stories

This collection of BTN's stories focuses on recycling and waste management. After watching any one of the BTN videos ask students to respond to the discussion questions (to find the discussion questions and teacher resources go to the related BTN Classroom Episode and download the Teacher Package).



Recycling Solution



Worm Wee



Wipe Out Waste



Plastic Packaging



Composting Awareness



Landfill



O Useful Websites

Bin materials audit results – East Waste https://www.eastwaste.com.au/bin-materials-audit-results-for-east-waste/

Recycling Solution – BTN https://www.abc.net.au/btn/classroom/recycling-solution/11414418

Plastic Packaging – BTN https://www.abc.net.au/btn/classroom/plastic-packaging/10525094

Landfill – BTN https://www.abc.net.au/btn/classroom/landfill/10528822

Wipe Out Waste – BTN https://www.abc.net.au/btn/classroom/wipe-out-waste/10523046

