

Waste Education Activity Sheet

Test your knowledge and learn more about waste and resource recovery by completing this activity sheet. These puzzles are suitable across age groups, but are best suited to Stage 3 and above.



FIND-A-WORDS

Find the words/ combination of words in the puzzles.

Words can go in any direction. Words can share letters as they cross over each other. Some words are two word combinations.

Activity 1. What belongs in your recycling bin?

Words to find: aluminium cans, steel cans, tin cans, empty aerosols, clean cardboard, clean paper, bottles, jars, juice cartons, milk cartons, newspapers, envelopes, magazines, plastic bottles, clean containers.

Top Recycling Tips: 1. wash out items before placing them in the bin, 2. remove lids from bottles. 3. with food cans remove lid, clean, then place lid in the can, squashing the top of the can together to stop the lid falling out, 4. If unsure check the kerbside bin guide on councils website-wish cycling causes contamination.

I K K A X E G V T H C O S W J A C P
 S B I G L S N A C L E E T S J M O L
 S N O A E K J N S B P L E A S L N A
 M I O I P M E I A O Q P R U I Q E S
 V Z W T R S H K L V N S A S Z B S T
 P M S K R R N E V Y K L V L G O R I
 C H E S I A V A Q X U Y B O R T E C
 C N W A H N C Q C M S H L S C T P B
 O S Q M E C G K I N E O L O O L A O
 T A N Z C W L N L B I J W R U E P T
 G E Z S H W I E U I X T F E E S S T
 F N B U S U S U A D M H Z A W G W L
 W N P U M W S C N N W R F Y B C E E
 T U H C F B T V Z Q P Y X T I Y N S
 M M A G A Z I N E S Z A U P X U R R
 S N O T R A C E C I U J P M B B Z F
 S S R E N I A T N O C N A E L C E G
 C L E A N C A R D B O A R D R F S Z

Activity 2. What belongs in your green lidded Food Organics and Garden Organics (FOGO) bin??

Words to find: bones, cooking oil, food waste, leaves, pasta, tree clippings, bread, dairy, fruit, leftovers, rice, vegetables, coffee, fish, grass clippings, meat, teabags, weeds.

Top FOGO Tips: 1. Only organic materials belong in here, 2. NO plastics, food packaging, clothing, nappies, or pet waste belong in the FOGO bin, 3. Treated timber cannot go in your FOGO bin, 4. Only council provided compostable caddy liner bags can be placed in your FOGO, 5. If it lives or grows, in it goes

B B P Q A T X C S M W Q T H F F P Q
 T O O D O O F E L R B Q G I C A O D
 C N M N Q N L M T I E I E L J T V G
 R A I D E W R Q L S P V I I Z L X J
 S O O U F S D Q V R A P O R Q I U p
 p M A B B I U Y X E P W I T O X O U
 C O F F E E S P J I S A Z N F O K T
 L T R A L E B H N A T A E M G E G M
 C N T W E C U G T D A P X S R S L Q
 B y Z I C I S S O I O M E R D Y N Z
 Q I O F O R A S X Z G L D S W I L B
 S A W B O P T E G G B A Z L Q C G R
 D R Z O K H Z V P A I T I U R F G E
 E A B A I O S A T R B O N T L Y R A
 E S X C N Y E E Y X I A U O C S A D
 W O J B G W G L U L T R E E S y S A
 A V N Z R E D W M K B P R T O Z S K
 H A F A V N M Y Y F G U L U O Z W R



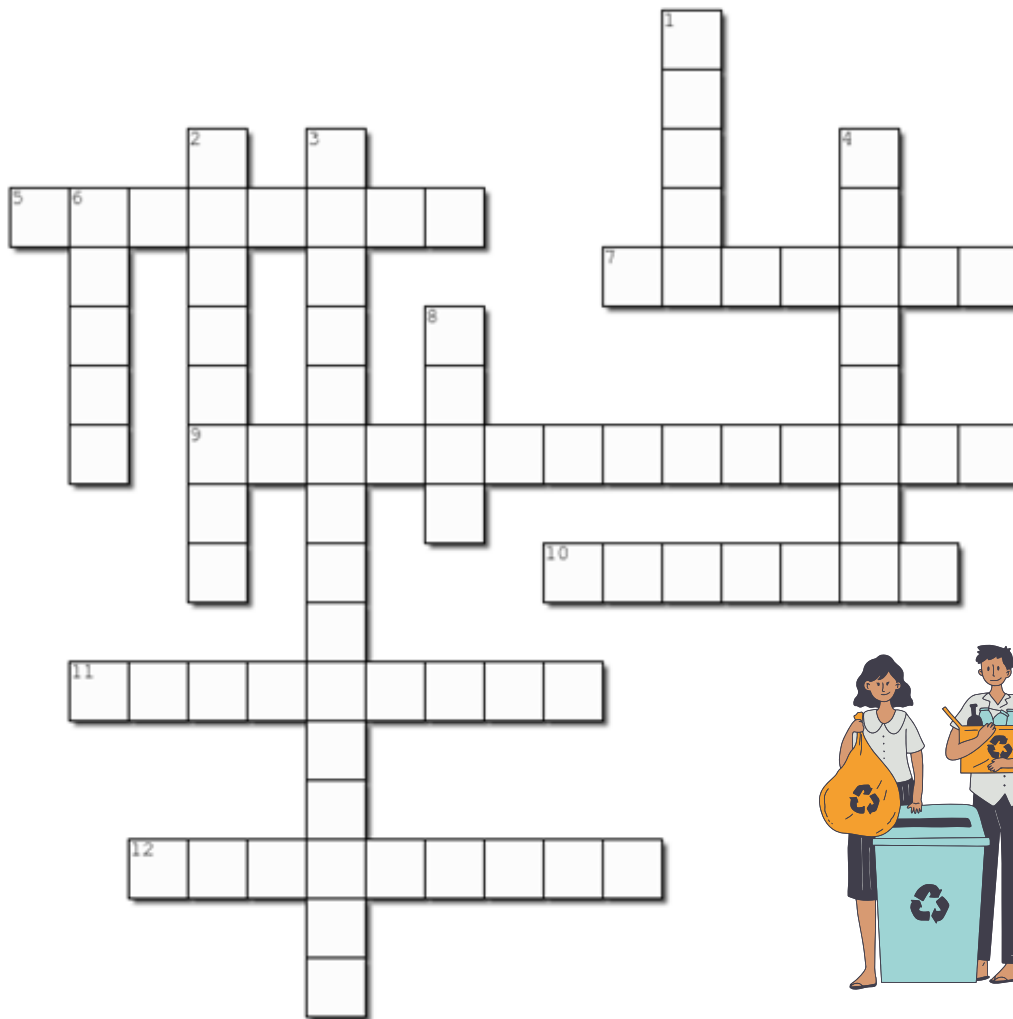
Activity 3.

CROSS WORD

Name: _____

Waste and Resource Recovery

Complete the crossword puzzle below.



Created using the Crossword Maker on TheTeachersCorner.net

Across

- 5. Material that comes from living organisms that can break down into compost. E.g. food scraps, garden waste etc.
- 7. A greenhouse gas emitted from landfill anaerobic decomposition. It is 25 x more potent than carbon dioxide.
- 9. 2 words (7,7) that describes unlawful deposit of waste onto private or public land, costing councils and residents.
- 10. Organic material aerobically decayed and used as a fertilizer for growing plants.
- 11. The action or process of converting waste into reusable material.
- 12. 2 words (4,5) A movement and lifestyle of eliminating plastics from everyday activities.

Down

- 1. Materials discarded as no longer useful or required after use. Something we want to avoid.
- 2. The disposal of waste material by burying it. The least preferred way to deal with materials.
- 3. 2 words (8,7).A model of production and consumption, in which resources remain in circulation for as long as possible.
- 4. A material that's durability is both why it is used so much and a reason it is problematic to the environment.
- 6. An action of using an item, for its original purpose or for a different function.
- 8. The acronym for a municipal composting scheme that is in place in the Dubbo Region, Mid-Western Region and Narromine.

What do you know about waste at home?

Activity 4.

Test your waste and resource recovery knowledge.

Answer the questions and fill in the gaps with the most correct answers.

1. List all of the items that you can recycle in your yellow lid kerbside bin at home.

If you live in the Mid Western Regional Council area also list what goes in your blue lidded bin.

2. List all of the items that belong in your green lid FOGO bin at home.

3. Fill in the blanks about Food Organics and Garden Organics (FOGO)

It is important that you sort your food o_____ and garden organics [FOGO] correctly, ensuring only organic compostable material goes in this bin. Once it is processed these materials become c_____ and reenter our environment therefore helping to grow our food and provide nutrients to plants in our parks and public places.

Items such as p_____ can cause harm to soil, waterways, people and animals if present. It is important that the compost is of very high quality, which starts with how each of us sort our waste at home.

FOGO is beneficial to households, the community, and the environment. Did you know that on average h____ of the items in most household red landfill bins are organic materials. By putting these items in the FOGO g_____ lidded bin, more waste is diverted from landfill. Landfills are filling up quickly and more waste is being generated each year. Not only are landfills s_____ but they also produce a harmful greenhouse gas called m_____ which is 25 times more potent than c_____ d_____. As we know, greenhouse gases produced by us humans contribute to anhtropogenic c_____ c_____.

By preventing organic items from entering landfill, and giving them a new and useful life as compost we are reducing harmful e_____ that contribute to climate change, and keeping useful resources in circulation by recycling them into useful compost. It also saves money for residents and the council as it is very expensive to dispose of materials in landfill.

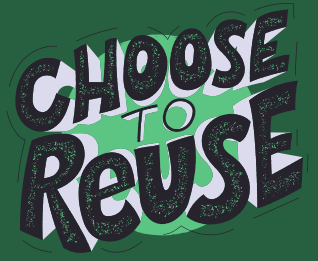
Another fantastic way to divert your organics from entering l_____, is by starting a backyard compost bin/ heap, a worm farm or bokashi bin. There are many ways to do this and lots of information online about setting up these natural recycling systems for your organics waste.

Composting is natures way of recycling, but it needs our help. Composting is an aerobic process meaning that o_____ is required to be present. When oxygen is present in the compost heap because of us humans turning and tending to the materials, microbes that can only live where there is oxygen present begin to break down the materials turning it into rich nutrients which you can spread on your garden to help your plans and soil.

This a_____ process differs from how materials break down in landfill where oxygen isn't present. The aerobic decomposition that happens in composting make organic break down much faster than if in landfill, and the harmful greenhouse gas methane is n___ emitted.

Compost more, w_____ less!

REUSE BRAINSTORM



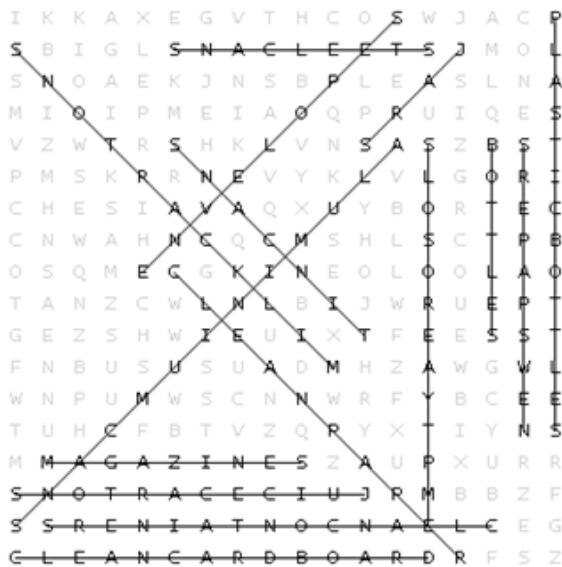
Activity 5. Rethink your waste by getting creative.

Draw or write different ways each item can be reused, repurposed, or recycled. Think creatively about the shape, material and potential functions of the items.

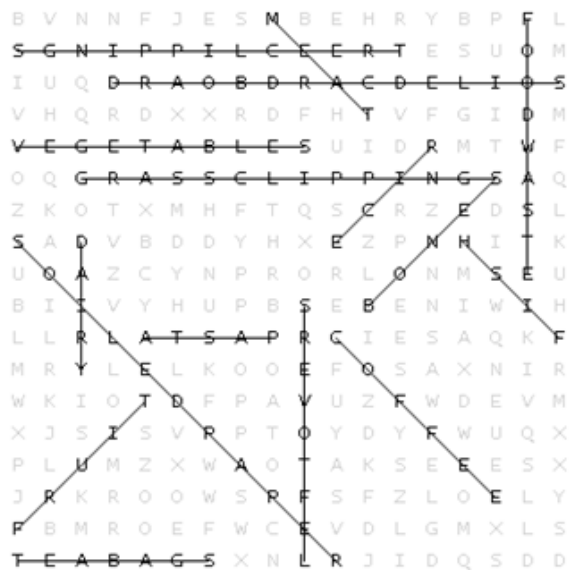


ANSWERS

Activity 1 Answers



Activity 2 Answers



Activity 3 Answers

- 1.waste
- 2.landfill
- 3.circular economy
- 4.plastic
- 5.organics
- 6.reuse
- 7.methane
- 8.FOGO
- 9.illegal dumping
- 10.compost
- 11.recycling
- 12.zero waste

Activity 4 Answers

- 1.Plastic bottles (lids on), tin steel, aluminium cans, rinsed glass bottles and jars, clean rigid plastic containers, food tins, juice boxes and milk cartons, empty aerosol cans, magazines, envelops, clean paper and cardboard (in blue lidded bin in MidWestern Council, yellow lidded bin for Narromine and Dubbo Region).
- 2.Fruit peels and cores, vegetable scraps, meat scraps, bones, poultry, dairy, rice, pasta, cakes, other food scraps, garden clippings and trimmings, grass clippings, weeds, leaves and trimmed branches (up to 15cm diameter).
3. organics, compost, plastics, half, green, scarce, methane, carbon dioxide, climate change, emissions, landfill, oxygen, aerobic, not, waste.

To find out more...



Please check your council's website for further information or contact the Resource Recovery Education Officer at your relevant council.

Dubbo Regional Council

<https://www.dubbo.nsw.gov.au/>

(02) 6801 4000



Mid-Western Regional Council

<http://www.midwestern.nsw.gov.au/> 1300 765 002



Narromine Shire Council

<https://www.narromine.nsw.gov.au/> (02) 6889 9999

