

Waste Jeopardy

Activity Overview

Participants will answer trivia questions related to waste information, including sorting, recent statistics and waste reduction tips. Questions will be valued according to a point system and be informed by difficulty level.

Objectives

- Understand impacts of human activities on habitats and communities
- Analyse actions for minimizing negative impacts and enhancing positive ones

Materials

- Waste Jeopardy board
- Question and answer cards

Setup.

Prop up Jeopardy display board and attach cards with the Velcro pads. Ensure cards are put in order of numerical value, from lowest value at the top to highest value at the bottom.

Takedown

Close display board by folding tabs inward.

Safety

N/A

Vocabulary

N/A

What will I be doing? (Procedure)

Before you start your presentation, check with the teacher or chaperone that the entire group is present and ready to start.

*Remember that kids have more fun when they are **doing** an experiment and **discovering** the answer, rather than watching and listening.*

Part 1

Welcome + About Ecosource

Welcome to the Ecosource Waste Jeopardy Quiz booth! Ecosource is a Peel-based environmental organization that works to inspire and help the community and its residents to become more environmentally responsible. Across Peel Region, Ecosource promotes environmental education related to local food, waste reduction, nature play, youth leadership, and climate action.

Part 2

Waste Reduction Jeopardy

For today's activity we are running a Waste Reduction Jeopardy! You (students) can compete either in teams or as a whole group to see how many points you can earn! You can choose from any of the 4 categories; the higher the value, the more difficult the question.

Instructions:

- 1. Participants choose whether to play as two teams or one team.*
- 2. Participants will take turns picking a category and will get to answer a question, starting with the lowest value card in that category. They will also have the option of selecting which cards they would like to answer.*
- 3. If they get the answer right, they get the points assigned to that question. If there are two teams and the first team gets the answer wrong, then the second team has a chance to steal the points.*
- 4. Once the team has answered correctly or both teams have answered incorrectly, provide the information on pages 5 and 6 to give the group an explanation of the answer.*
- 5. The game continues until all questions have been answered and all points awarded (if time allows). Otherwise, points can be tallied at the end of the time slot. The team with the most points wins.*

Here are the categories for this round of Jeopardy!

Let's Talk Trash – this category is focused on the waste we create, how it is managed, and how we should sort it.

That Pesky Plastic – this category is all about sorting our plastics and the impacts it has on the environment.

Let it Rot – these questions are all focused on our organic waste.

Zero Waste Life – the focus of this category is waste reduction! How we can make less waste and what the benefits are.

Choose your first question and we'll get started! We'll keep track of your points and calculate your total at the end!

Jeopardy Board: Questions and Answers

	LET'S TALK TRASH	THAT PESKY PLASTIC	LET IT ROT	ZERO WASTE LIFE
\$250	When we produce garbage that gets sent to our landfill it can pollute our air, water, and soil True or False	Roughly how long does plastic take to break down? a. 10 years b. 100 years c. 1000 years	What does our organic waste, such as food scraps, get turned into?	When we work towards zero waste, we help to: a. Conserve natural resources b. Reduce pollution from manufacturing c. Make less garbage d. All of the above
	True	c. 1000 years	Compost	d. All of the above
\$500	How many metric tonnes of residential waste does Peel Region manage each year? a. 1000 tonnes b. 268,000 tonnes c. 300,000 tonnes d. 570,000 tonnes	What natural resource is used to make plastic?	You can dispose of facial tissues in the organics/compost/green bin. True or False?	Which of the 3 Rs (Reduce, Reuse, Recycle) best helps us to achieve zero waste?
	d. 570,000 tonnes	Oil	True	Reduce

\$1000	Where is Peel Region's landfill located? a. Warwick, ON b. London, ON c. Albany, NY	Which of the following plastic items should NOT be put in the recycling bin: a. Plastic fork b. Plastic bag c. Plastic bottle	What is the most abundant greenhouse gas emitted from organic waste in a landfill? a. Methane b. Carbon dioxide c. Nitrous oxide	List three items that could be used to pack a zero-waste lunch.
	a. Warwick, ON	a. Plastic fork	a. Methane	Answers may include: Reusable lunch bag, Tupperware, stainless steel water bottle, metal straw, cloth napkin, etc.
BONUS	Where should we dispose of old or broken electronics?	What percentage of plastics have been recycled globally? a. <10% b. <20% c. <50%	Primary composting happens at the Peel Integrated Waste Management Facility in Brampton. Where is the Peel Curing Facility, where secondary composting takes place?	Kenny's parents packed him asparagus for lunch, but he really doesn't like asparagus. He decides to throw it out in the school garbage bin so that his parents won't know that he didn't finish his food. How can Kenny waste less food?
	Community Recycling Centres, electronics retail stores, used goods stores	a. <10%	Caledon	Answers may include: <ul style="list-style-type: none"> • Bring the food home for someone else to eat. • Tell his parents that he doesn't like that food so they can pack a different vegetable. • Bring the food home to be cooked into a different dish.

Jeopardy Board Answers with Explanations

	LET'S TALK TRASH	THAT PESKY PLASTIC	LET IT ROT	ZERO WASTE LIFE
\$250	True: Landfills produce carbon dioxide and methane gas that pollute the air and contribute to climate change. When rainwater mixes with toxic chemicals from some items in the landfill it creates leachate. Leachate contaminates soil, groundwater, and surface water.	c. 1000 years - (synthetic) plastic is pretty sturdy, but, over hundreds of years, it breaks down into smaller and smaller pieces of plastic until you have tiny, tiny pieces called microplastics that can pollute our environment forever.	Compost: At the Peel Integrated Waste Management Facility and the Curing Facility, our organic waste is used to create compost that can be added to soil for gardening and farming.	All of the above: In a zero waste approach, people buy less, throw fewer things away, and products are made to last longer and to become another useful product at the end of their life. Thus, fewer products have to be made, fewer raw materials have to be extracted from the earth, and less garbage is produced.
\$500	570,000 tonnes: 1 tonne equals = 2205 pounds That's 77,161,791,765 lbs of waste. Food waste is the largest category of waste disposed of by quantity, followed by plastics.	Oil - Crude oil contains many components, one of which can be refined into the building blocks of plastic through different physical and chemical processes.	True – Even though facial tissues are paper products, we cannot put them in the recycling bin because they are very thin as well as dirty (with snot!). However, paper comes from trees which are living things, so tissues are organic material and can be thrown out in the organics bin! If you're at school and don't have an organics bin, then your tissues go in the garbage	Reduce – Here is something to think about: Which makes the least waste? Buying a plastic water bottle and recycling it (recycle); buying a plastic water bottle, refilling it 3 times and then recycling it (reuse); or never buying a plastic water bottle because you have your own reusable water bottle (reduce)?
\$1000	a. Warwick, ON – which is about 250 km or 2.5 hours away from here.	Plastic fork - Plastic forks and other plastic disposable cutlery are not recyclable in Peel Region and should be put in the garbage bin. They are too small to go through the waste sorting machines in Peel and can cause jams and damage to the facility.	Methane - when organic waste, like food scraps, breaks down without oxygen while it is buried in landfills, methane gas is produced. In our atmosphere, methane gas traps heat from the sun and is calculated to be responsible for 25%	Answers may include: <ul style="list-style-type: none"> • Reusable lunch bag • Tupperware • Reusable water bottle • Metal cutlery • Metal straw • Cloth napkin • Etc. <p>These are examples of</p>

			of changes to the Earth's climate so far. Sorting our organics helps keep organic waste out of landfills and reduce methane emissions.	items that can replace single-use and disposable food packaging and accessories.
BONUS	Community Recycling Centres (CRCs), electronic retail stores, used goods stores – You cannot dispose of e-waste in your regular recycling bin, but you can still recycle your electronics by bringing them to a CRC or drop-off location. E-waste cannot be disposed of in the garbage bin because it contains hazardous materials that can cause fires, and can also leach toxic substances into the natural environment.	a. <10% - In Canada around 6% of plastic waste is recycled whereas 82% ends up in the landfill (OECD.org)	Caledon – The Peel Curing Facility is in Caledon, just north of Downey's Farm!	Answers may include: <ul style="list-style-type: none"> • Bring the food home for someone else to eat • Tell his parents that he doesn't like that food so they can pack a different vegetable • Bring the food home to be cooked into a different dish <p>These example solutions prevent the food from being thrown away.</p>

Thank you for coming to play this trivia game – we hope you had fun!

Specific Reminders for Students:

- The most important R in the 3 Rs is Reduce! Find ways to reduce the waste you create at home and at school.

Background Information (For Volunteers' Reference)

- If there are questions you cannot answer, please go to Peel Region's Waste Management website: peelregion.ca/waste