

Date:



https://www.youtube.com/watch?v=_6xINyWPpB8

[illegible]

Across

- 1 Place where lots of trash is buried and piled up (8)
- 3 Layer of water found underground that can be polluted by leaking chemicals (11)
- 4 Large body of salt water where rivers often end (5)
- 6 Name of the huge trash-collecting area in the Pacific Ocean (13)
- 10 Action that breaks material into tiny pieces before washing and melting (9)
- 13 Tiny bits of plastic made at factories before being melted and molded (7)
- 14 Where oil and gas are processed into materials used to make plastic (8)

Down

- 2 Harmful liquid formed when rainwater soaks through waste and picks up toxic compounds (8)
- 5 Massive rotating current area where floating trash gathers (4)
- 7 Tiny plastic pieces formed when larger plastics break apart (13)
- 8 Process of turning used plastic into raw material that can be made into something new (9)
- 9 Facility where collected bottles are sorted, flattened, and processed (5)
- 11 Small building blocks created when oil and gas molecules bond (8)
- 12 Long chains formed when many monomers bond together (8)
- 15 Animals can get caught in plastic debris and be unable to move (9)

Match each term to its meaning from the video.

Landfill

Leachate

Gyre

Garbage Patch

Microplastics

Monomers

Polymers

Recycling plant

● Trash buried and compressed

● Toxic liquid from rain + waste

● Rotating current that traps debris

● Huge Pacific area full of plastics

● Tiny pieces from broken plastic

● Small molecules used to make plastic

● Long chains built from monomers

● Bottles shredded, washed, remelted

This exercise moves beyond simple recall to synthesis and explanation. It prompts students to articulate the 'why' behind the problems and solutions in their own words, demonstrating a deeper level of comprehension of the video's overall message.

Where do the plastic bottles originally come from before they are made into bottles?

They originate in an oil refinery, where oil and gas are turned into building blocks for plastic.

What environmental problem can happen when plastic sits in a landfill for a long time?

Rainwater can form toxic leachate that may leak into soil and groundwater and harm ecosystems.

How can recycling change the outcome for a plastic bottle compared to landfill or ocean pollution?

At a recycling plant the bottle can be flattened, shredded, washed, and melted into raw material to be made into something new.