

# Planet Protectors Answer Sheet

Name(s):

School:

Team Number:

## Station 1

- 1.
- 2.
- 3.
- 4.

## Station 5

- 1.
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## Station 2

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## Station 6

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## Station 3

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## Station 7

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## Station 4

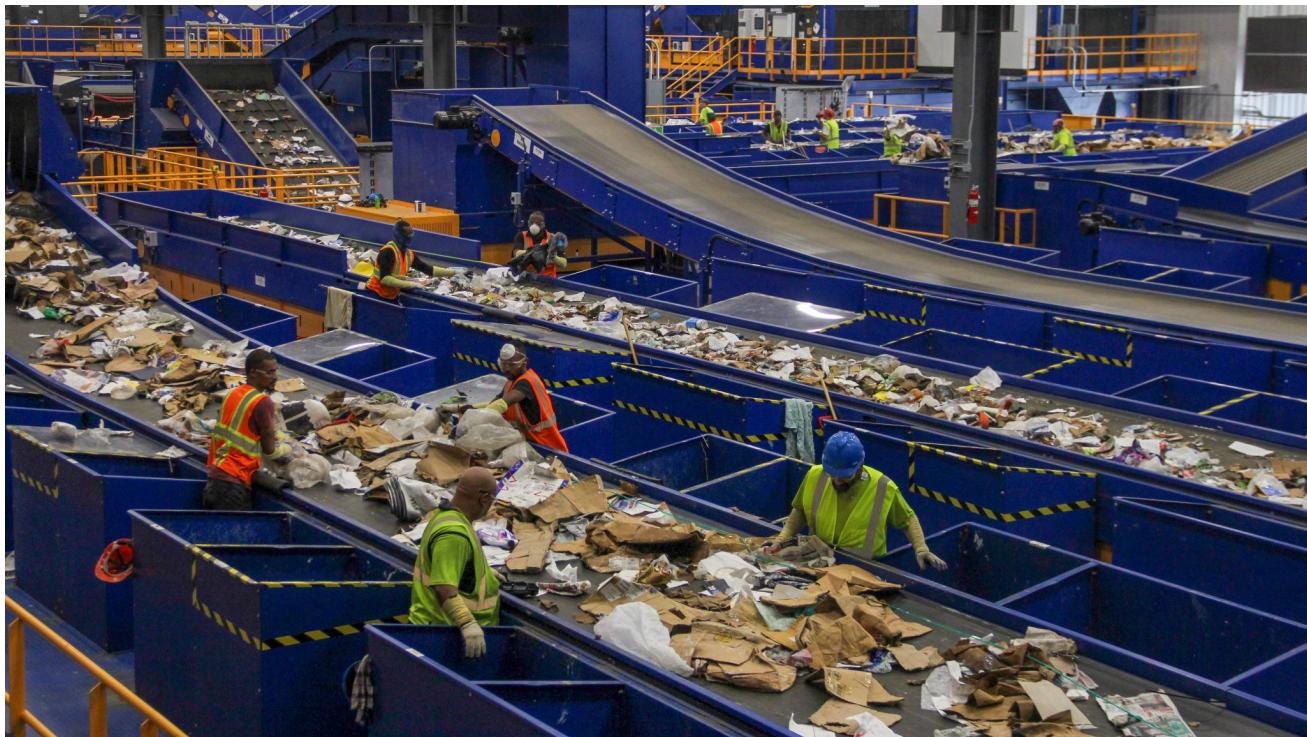
- 1.
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## Station 8

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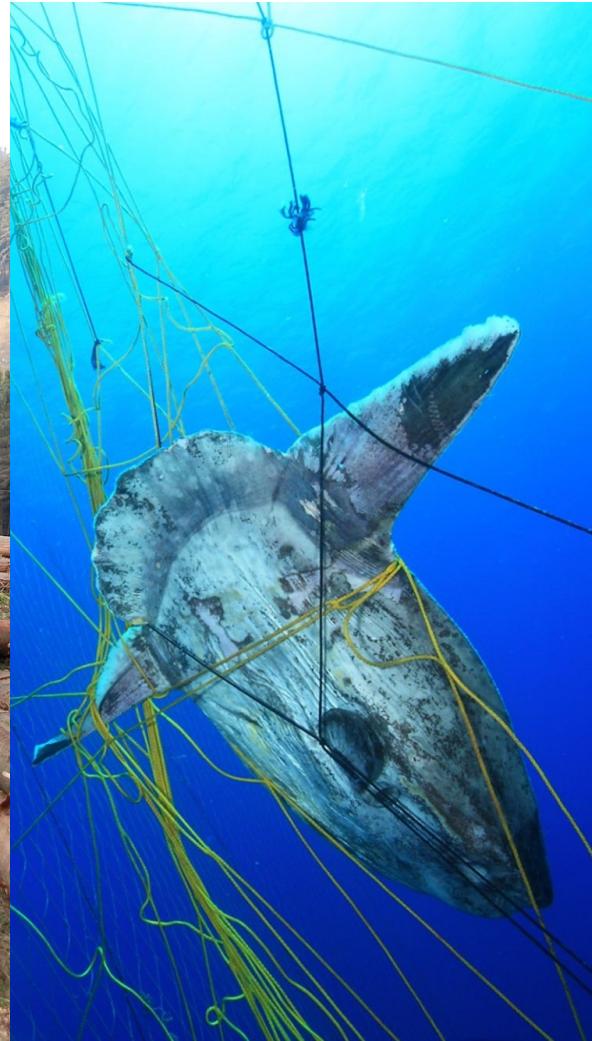
# STATION 1 — Helpful Human Interactions

1. Which action best shows reusing?
  - A. Throwing away old jars
  - B. Melting plastic bottles into new ones
  - C. Using an old jar to store pencils
  - D. Composting banana peels
2. Think of a compost bin. Write two items that can go into compost and one item that should not.
3. Recycling helps the Earth by:
  - A. Making more trash
  - B. Reducing the need for new raw materials
  - C. Using more energy
  - D. Making landfills grow
4. Identify one way your school could reduce waste using one of the four R's (reduce, reuse, recycle, repurpose).



## STATION 2 — Harmful Human Interactions

1. What is a major consequence of deforestation?
  - A. More homes for animals
  - B. Increased oxygen production
  - C. Loss of habitat for many species
  - D. More shade
2. Look at the bycatch diagram. Describe what bycatch is and why it harms ocean ecosystems.
3. Which action is an example of overconsumption?
  - A. Buying only what you need
  - B. Using reusable grocery bags
  - C. Purchasing far more food than you will eat
  - D. Sharing tools with neighbors
4. Identify one environmental risk of strip mining shown in the picture.



## STATION 3 — Renewable vs. Non-Renewable Resources

1. Which is a renewable resource?
  - A. Coal
  - B. Oil
  - C. Wind
  - D. Natural gas
2. Explain why fossil fuels are considered non-renewable.
3. Which resource can be replaced quickly by natural processes?
  - A. Petroleum
  - B. Sunlight
  - C. Natural gas
  - D. Coal
4. Which resources in the pictures do you think should be used more and why?



## STATION 4 — Energy Sources

1. Which energy source uses moving air?
  - A. Solar
  - B. Wind
  - C. Biomass
  - D. Nuclear
2. Look at the hydroelectric dam picture. Describe how water is used to make electricity.
3. Which energy source comes from heat inside the Earth?
  - A. Solar
  - B. Nuclear
  - C. Geothermal
  - D. Biomass
4. Name one advantage and one disadvantage of solar energy.



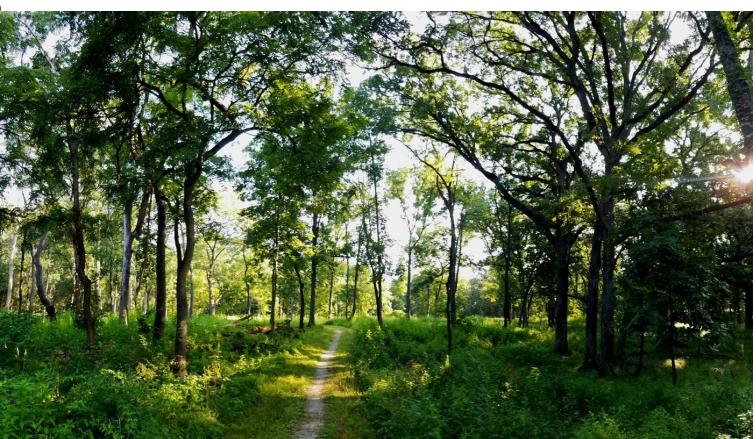
## STATION 5 — Types of Pollution

1. Which image shows a point source of pollution?
  - A. River runoff from many farms
  - B. A single pipe releasing waste
  - C. Light from city buildings
  - D. Air pollution from wildfires
2. Identify two ways light pollution affects animals.
3. Groundwater pollution often comes from:
  - A. Clouds
  - B. Underground aquifers
  - C. Chemicals leaking into soil
  - D. Solar panels
4. Write one example each of air, water, and groundwater pollution.



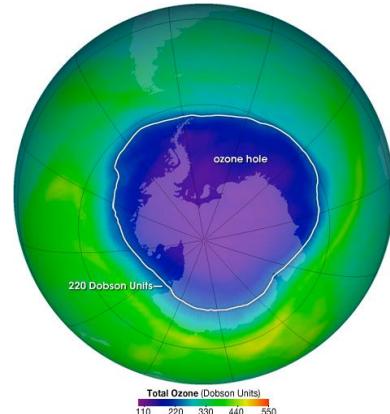
## STATION 6 — Conservation Practices

1. Which is a conservation best practice?
  - A. Leaving lights on all night
  - B. Wasting clean water
  - C. Planting native plants
  - D. Throwing trash into a river
2. Describe one habit people can adopt to reduce water use at home.
3. Which practice helps prevent air pollution?
  - A. Burning trash
  - B. Carpooling
  - C. Idling engines
  - D. Using more coal
4. Explain one way protected forests help biodiversity.

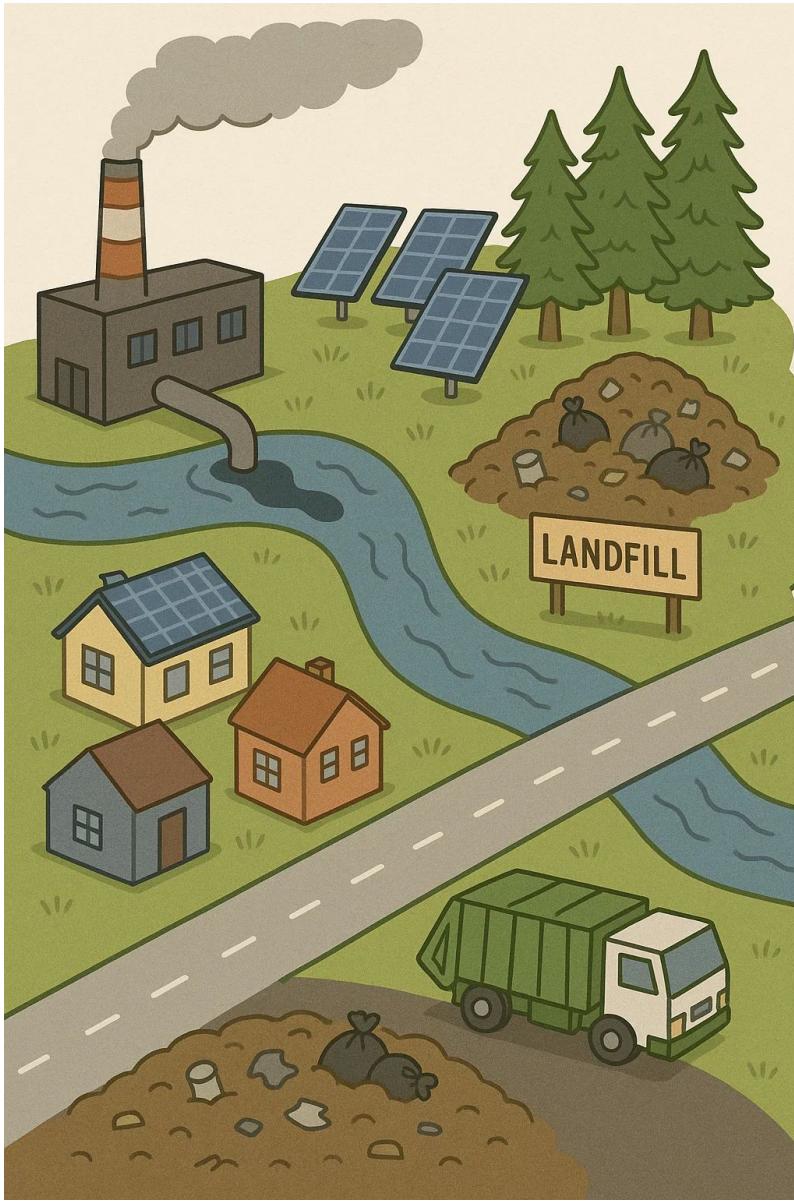


## STATION 7 — Environmental Consequences

1. What is the Great Pacific Garbage Patch mostly made of?
  - A. Large islands of metal
  - B. Floating plastics and debris
  - C. Oil platforms
  - D. Rocks and sand
2. Look at the coral bleaching image. What causes ocean acidification, and how does it harm marine organisms?
3. Which gas is most associated with climate change?
  - A. Oxygen
  - B. Carbon dioxide
  - C. Nitrogen
  - D. Helium
4. Why does loss of biodiversity make ecosystems weaker?



## STATION 8 — Integrated Scenario



**Materials:** Diagram of a town with a factory pipe, solar panels, a forested area, a river, and a landfill.

1. Which part of the town represents a renewable energy source?
  - Factory smokestack
  - Landfill
  - Rooftop solar panels
  - Garbage truck
2. Identify one helpful and one harmful human interaction shown in the diagram.
3. The pipe leading from the factory into the river is an example of:
  - Non-point source pollution
  - Point source pollution
  - Renewable resource
  - Composting
4. Suggest one change the town could make to reduce its environmental impact.