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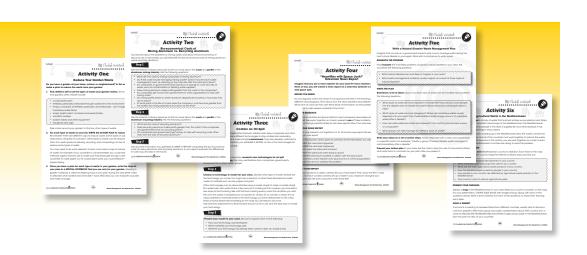
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NAME:





Space Junk

What is space junk?



bjects in space that orbit Earth are called **satellites**. Humans have been sending satelites into space since 1957. Since that time, the space around Earth has been getting filled with human-made waste, sometimes called **space junk**. Space junk comes from many sources. Satellites travel to space on rockets. Usually, more than

one rocket is used for each satellite. As each rocket is used up, it simply drops off the satellite. If the satellite is high enough above Earth, the rocket stays in orbit instead of falling to the ground. Other types of space junk include old, unused spy and weather satellites; and small pieces of spacecraft that break off in space.



Describe the meaning of the term space junk.

Why is space junk a problem?

If a space craft is hit by a piece of space junk, the space craft can be destroyed. Even a small piece of space junk could punch a hole in the wall of a **shuttle** or **space station**, putting the lives of human **passengers** at risk. Space junk could destroy expensive **robotic missions** to other planets, space **telescopes**, and important communications and weather satellites in orbit around Earth. It is the job of the U.S. Space Surveillance

It is the job of the U.S. Space Surveillance network to keep frack of the location of all known space junk. Right now, they are tracking 13,000 pieces of space junk larger than four inches (ten centimeters)! The model at the right shows the area where these

objects are located. Many space scientists think that we need to start sending up space clean-up missions to remove larger pieces of space junk.

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NAME:	





Space Junk

3.	Explain why space junk can be dangerous. Give	examples to support your
	reasoning.	

4. Write your ideas about how people can solve the problem of space junk.

Extension & Application

5. Make a model of space junk!

Materials you can use for this project include



Scientists are tracking more than 13,000 pieces of space junk in orbit around Earth! This space junk includes everything from large, unused satellites to small pieces of insulation.

Research additional examples of space junk. Find photographs of satellites and rocket boosters, so that you have some idea of what space junk might look like. Then, **create a three-dimensional model of Earth with space junk in orbit.** Be creative! Since you will not be able to make 13,000 pieces of space junk, you should include a key that shows how many actual pieces of space junk one of your model pieces represents. For example, if your model includes 130 pieces of space junk, each piece in the model represents 100 actual pieces of space junk.

Display your model in class.

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Nuclear Fuel Debate

Set up a class debate about the use of nuclear energy to make electricity. Nuclear energy has ADVANTAGES and DISADVANTAGES. It does not create air pollution like burning fossil fuels. It does not add greenhouse gases to the atmosphere. However, it does have the problem of creating radioactive waste.

BEFORE YOU BEGIN

Have students choose whether they will argue for or against the use of nuclear energy to make electricity. Or, have students draw straws to be randomly assigned to one group or the other.

DO YOUR RESEARCH

Together as a group, research all of the advantages and disadvantages of nuclear energy. Read what experts have to say on both sides of the issue. Find out how much nuclear energy costs compared to other types of energy. Then, try to analyze the bio-economic costs of nuclear energy compared to other types of energy.

Write a list of **five main points** that your group would like to make in the debate. After you write your list, try to think of what the other group might say in response to your points. Talk about how you will respond to arguments about the points you are making.

Choose one person in your group to make each of the points. If there are more people left in your group, choose one person to respond to each of the other team's points.

CONDUCT THE DEBATE

In the debate, each side will have 2 minutes to make each of their points. Teams will take turns. Team A will make their first point, then Team B will have 2 minutes to make an argument against that point. Finally, Team A has one additional minute to respond to Team B's argument. There Team B has 2 minutes to make their first point. Team A will have 2 minutes to n argument against that point. Then, Team B has one additional minute to respond to Team A's argument. This process continues until all of the points have been made.

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NAME:





Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards.

acid habitat reduce fertilizer nuclear recycle mining landfill fungicide cyanide reuse sustainable uranium space junk

fuel rods disposable profits debris Chernobyl Kovalam economic

hazardous xon Valdez iogas industries atom toxic rock

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NAME:





Part C

Comprehension Quiz

Answer the questions in complete sentences.

Describe **two** ways that farmers can lessen agricultural waste.



Describe **two** types of mining waste and **compare** the amount of harm each type of waste can cause.



Explain why an oil spill can be so harmful to a horeline environment. Give examples to support your answer.



Describe **two** ways that hazardous waste can be released in a natural disaster.



Compare the **bio-economical cost** of throwing away food waste to composting food waste.



SUBTOTAL:

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Mining Waste

(Polluted River Downstream from Operating Mine)



NAME:		





Space Junk

•	Explain why space junk can be dangerous. Give examples to support your reasoning.
	Write your ideas about how people can solve the problem of space junk.

Extension & Application

5. Make a model of space junk!

Materials you can use for this project include:

Scientists are tracking more than 13,000 pieces of space junk in orbit around Earth! This space junk includes everything from large, unused satellites to small pieces of insulation.

Research additional examples of space junk. Find photographs of satellites and rocket boosters, so that you have some idea of what space junk might look like. Then, **create a** three-dimensional model of Earth with space junk in orbit. Be creative! Since you will not be able to make 13,000 pieces of space junk, you should include a key that shows how many actual pieces of space junk one of your model pieces represents. For example, if your model includes 130 pieces of space junk, each piece in the model represents 100 actual pieces of space junk.

Display your model in class.

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