

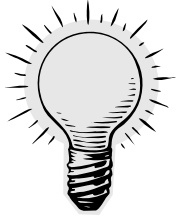
# Outreach Education

Black Canyon of the Gunnison National Park  
Curecanti National Recreation Area

National Park Service



Grade 6, Pre-Visit Activity, "Energy in Our World"



Name: \_\_\_\_\_

**List five things that you use electricity for at home or at school:**

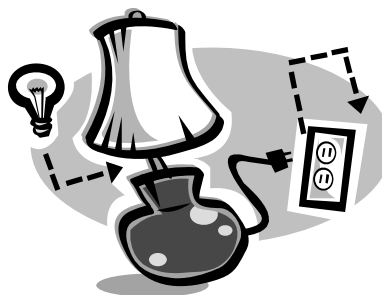
I use electricity to:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

Ask your teacher or parents how the electricity in your town is produced. Is it produced by a dam (hydroelectric power)? Or maybe by burning coal?

**List four more ways that energy or electricity can be produced. Then place an "R" by the renewable resources and an "N" by the nonrenewable resources.**

1. Solar Panels \_\_\_\_\_ R \_\_\_\_\_
2. \_\_\_\_\_ \_\_\_\_\_
3. \_\_\_\_\_ \_\_\_\_\_
4. \_\_\_\_\_ \_\_\_\_\_
5. \_\_\_\_\_ \_\_\_\_\_



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## VOCABULARY

- 1) **Energy**- resources such as petroleum, coal, gas, wind, water, and sunlight from which electricity can be produced
- 2) **Renewable Resources**- sources of energy which are unlimited if they are used wisely
- 3) **Nonrenewable Resources**- fuels such as coal, oil, and natural gas which will eventually be completely used up
- 4) **Fossil Fuel**- a naturally occurring energy source formed from the remains of ancient plant or animal life
- 5) **Nuclear Energy**- heat released by rearrangements of the nuclei in atoms
- 6) **Solar Energy**- power obtained from the sun
- 7) **Wind Energy**- power obtained by the movement of air
- 8) **Hydroelectricity**- power generated by moving water
- 9) **Conserve**- using resources wisely in order to receive maximum benefit over an extended period of time
- 10) **Preserve**- to protect from being used or damaged

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Grade 6, Post-Visit Activity, "Energy in Our World"

Name: \_\_\_\_\_

**Instructions:** Fill in the blanks.

1) Solar and wind are two types of \_\_\_\_\_ energy.

2) Fossil fuels come from the remains of \_\_\_\_\_ and \_\_\_\_\_ life.

3) \_\_\_\_\_ is the act of using resources wisely.

4) Curecanti National Recreation Area has three sources of \_\_\_\_\_ power.

5) Three fossil fuels are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

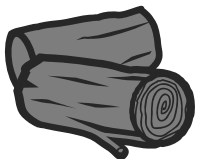
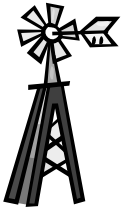
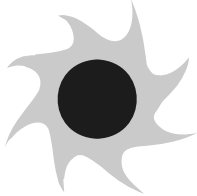
6) Plants use sunlight to create energy through a process called \_\_\_\_\_.

7) \_\_\_\_\_, which generates more than half of the United States' electricity, is a \_\_\_\_\_ resource.

8) Renewable resources do not \_\_\_\_\_ the air as much as nonrenewable resources.

9) Wood is an example of a \_\_\_\_\_.

10) If we \_\_\_\_\_ our resources we will be able to use them for a very long time.



## Teacher Answer Sheet for Energy Post Activity

- 1) Solar and wind are two types of renewable energy.
- 2) Fossil fuels come from the remains of plant and animal life.
- 3) Conservation is the act of using resources wisely.
- 4) Curecanti National Recreation Area has three sources of hydroelectric power.
- 5) Three fossil fuels are coal, natural gas, and oil.
- 6) Plants use sunlight to create energy through a process called photosynthesis.
- 7) Coal, which generates more than half of the United States' electricity, is a non-renewable resource.
- 8) Renewable resources do not contaminate the air as much as nonrenewable resources.
- 9) Wood is an example of a renewable resource.
- 10) If we conserve our resources we will be able to use them for a very long time.



## Energy Jeopardy Questions

1. What is the source of all energy? *The sun*
2. Plants use energy from the sun through what process? *Photosynthesis*
3. List two things we use to heat our homes. *Wood, solar, natural gas, etc.*
4. What does power generated from dams and falling water produce? *Hydroelectricity*
5. What should you do with an empty aluminum can? *Recycle it*
6. Energy in the food chain passes from the sun to producers to \_\_\_\_\_. *Consumers*
7. What uses more electricity – a radio, refrigerator or blender? *A refrigerator*
8. Renewable resources will last forever, but only if we \_\_\_\_\_. *Take care of them*
9. Planting \_\_\_\_\_ around your house will help keep it cooler naturally. *Shade trees*
10. Who can solve this energy riddle? Why did the gardener plant a light bulb? *He wanted to grow a power plant*
11. Where did a serious nuclear accident take place in 1986? *USSR (Chernobyl)*
12. What are coal, oil and natural gas also known as? *Fossil fuels*
13. What source of nonrenewable energy uses radioactive uranium? *Nuclear*
14. Fossil fuels were formed a very long time ago from decomposed \_\_\_\_\_. *Plants and animals*
15. Which method saves more hot water and energy – baths or showers? *Showers*
16. True or false. Oil is evenly distributed across the planet. *False*
17. Where does most of the heat escape from your house? *Windows*
18. More than half of the energy we use in our homes is for \_\_\_\_\_. *Heat*
19. If a machine is energy efficient, does it waste or save energy? *Save*
20. What is the term for using energy wisely? *Conservation*
21. You can save water by \_\_\_\_\_ when you brush your teeth. *Turning it off*
22. Name one source of renewable energy. *Wind, water, solar, wood(biomass), etc.*
23. Name one source of nonrenewable energy. *Coal, oil, natural gas, uranium*
24. What causes more pollution – fire places, cars or radios? *Cars*
25. Name one way of conserving energy. *Riding a bike, walking instead of driving, turning off lights, dressing warmly, etc.*
26. Which pot boils faster and uses less energy – a covered or uncovered one? *A covered pot*
27. What is the definition of a renewable resource? *A resource that is potentially unlimited*
28. What is the definition of a nonrenewable resource? *A resource that is limited in availability.*
29. What renewable source of energy uses glass in buildings to trap the sun's heat? *Solar*
30. When was the first light bulb invented – about 50 years ago, about 130 years ago, or about 270 years ago? *About 130 years ago (1879 – Thomas Edison)*
31. Which saves more energy – a dusty light bulb or a clean one? *A clean one*
32. What is the best kind of bag to use when shopping? *A reusable or cloth bag*
33. What source of energy is plastic made from? *Petroleum*
34. By sitting next to a window when reading, you are using \_\_\_\_\_, which is free and doesn't pollute. *Sunlight*

Energy Jeopardy Questions (cont.)

35. How many times can an aluminum can be recycled? *Over and over*
36. Which type of light bulb is more efficient – incandescent or florescent? *Florescent*
37. From what renewable resource do humans get the energy they use in their bodies every day?  
*Biomass*
38. What type of energy resource derives from the magma of the earth's crust? *Geothermal*
39. What are the names of the three dams at Curecanti National Recreation Area? *Morrow Point, Crystal, and Blue Mesa*
40. What resource is used to create over half the electricity in the United States? *Coal*
41. What is the most commonly used renewable resource worldwide? *Hydropower*
42. What beverage container is worth the most amount of money when you recycle it – a glass bottle, an aluminum can, or a plastic bottle? *An aluminum can*
43. Who can solve this energy riddle? How do we know that wind power is so popular? *Because it has a lot of fans*
44. The gasoline we use in our cars is produced by refining which fossil fuel? *Petroleum*
45. Most of the hot water wasted in a house is wasted in what room? *The bathroom*
46. What renewable resource accounts for the smallest percentage of electricity produced in the United States? *Solar*
47. Which country produces the most nuclear power? Japan, the United States, or Russia? *The United States*
48. Which state built both the first geothermal power plant and the first large solar power plant?  
*California*
49. What two things are in the nucleus of an atom? *Protons and Neutrons*
50. Name one clean form of energy. *Solar, Wind, Hydropower, Geothermal*