

Elementary Poll

SCIENCE OF ENERGY

1. Energy is needed to do which of the following?

- a. make things move
 - b. make things grow
 - c. make heat and light
 - d. all of the above
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2. Newton's Law of Motion states that an object in motion stays in motion unless a force changes its motion. If you kick a ball, what force makes the ball stop?

- a. gravity
 - b. friction
 - c. both gravity and friction
 - d. neither gravity nor friction
-

3. Why do most apples appear red to us?

- a. Red apples absorb the color red and reflect other colors.
 - b. Red apples reflect the color red and absorb the other colors.
 - c. Red apples reflect ultraviolet radiation.
 - d. Red apples absorb infrared radiation.
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4. Which of the following increases friction?

- a. freezing rain on a road
 - b. wax on skis
 - c. air blowing up on an air hockey table
 - d. rubber soles on shoes
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5. When you turn on a lamp, the electricity changes into what forms of energy?

- a. heat and light
 - b. sound and light
 - c. electrical and light
 - d. heat and electrical
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6. When you place a metal spoon in a pot of boiling water, the handle of the spoon becomes very hot even though it isn't touching the water. What kind of heat transfer is taking place?

- a. conduction
 - b. convection
 - c. radiation
 - d. all of the above
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SOURCES OF ENERGY

7. Why are some energy sources called renewable?

- a. They are clean and free to use.
 - b. They take a long time to be remade by nature.
 - c. They do not produce pollution.
 - d. They can be remade by nature in a short time.
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8. In the United States, which energy source produces most of our electricity?

- a. solar
 - b. natural gas
 - c. petroleum
 - d. coal
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9. Which energy source provides most of our transportation needs?

- a. solar
 - b. petroleum
 - c. biomass
 - d. coal
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10. Which energy source means heat from inside the earth?

- a. hydropower
 - b. geothermal
 - c. coal
 - d. natural gas
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11. Which energy source is made by the uneven heating of the earth's surface?

- a. wind
 - b. hydropower
 - c. geothermal
 - d. solar
-

12. Which energy source is used in nuclear power plants?

- a. petroleum
 - b. propane
 - c. uranium
 - d. biomass
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ELECTRICITY

13. Electricity travels in closed loops called...

- a. transformers
 - b. circuits
 - c. shells
 - d. generators
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14. Electricity is the movement of...

- a. neutrons
 - b. protons
 - c. electrons
 - d. molecules
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15. How is the amount of electricity you use at home measured?

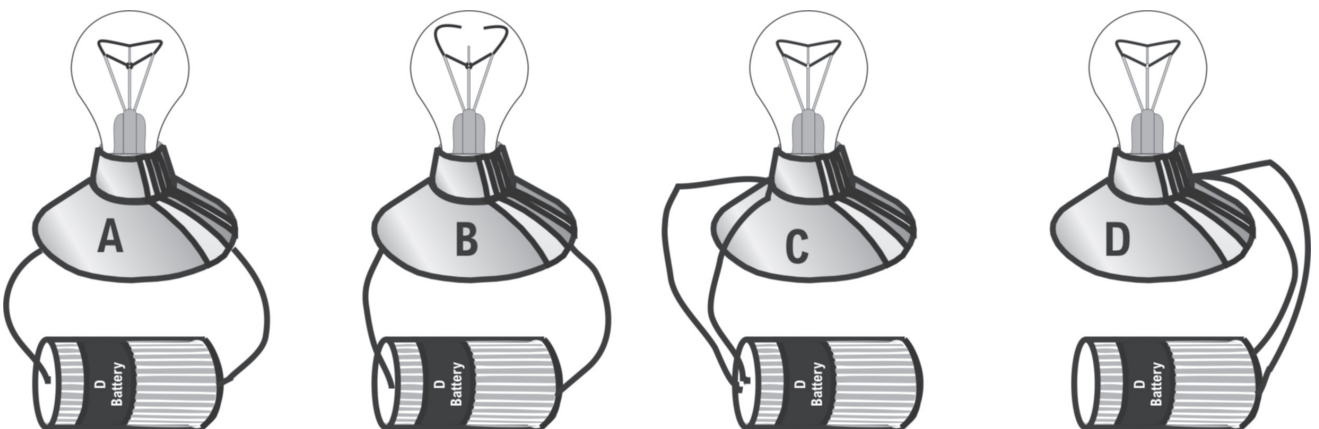
- a. ampere
 - b. volt
 - c. kilowatt-hour
 - d. watt
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16. Generators have which of the following parts?

- a. magnets and transformers
 - b. magnets and coils of copper wire
 - c. transformers and coils of copper wire
 - d. transformers and reactors
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17. In which picture will the lightbulb light?

- a. A
- b. B
- c. C
- d. D



CONSERVATION/EFFICIENCY

18. Which task in the average home uses the most energy?

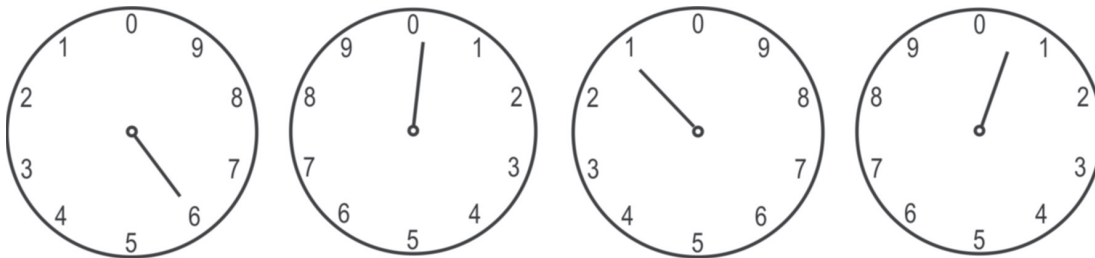
- a. lighting
 - b. keeping food cold
 - c. washing and drying clothes
 - d. heating and cooling the rooms
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19. Which type of lightbulb is the most energy efficient?

- a. incandescent
 - b. compact fluorescent
 - c. halogen
 - d. all lightbulbs are the same
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20. What is the reading on the natural gas meter dials pictured below?

- a. 7011 ccf
- b. 6010 ccf
- c. 6111 ccf
- d. 6000 ccf



OPINION

Circle the number that represents how strongly you agree or disagree with the statement.

	Strongly Disagree			Strongly Agree	
1. There are lots of ways to save energy	1	2	3	4	5
2. Learning about energy can be fun	1	2	3	4	5
3. I want to learn more about energy	1	2	3	4	5
4. Energy is important for our future	1	2	3	4	5
5. It's best to use a mix of energy sources	1	2	3	4	5

LEADERSHIP

Below are some activities you may do at school. Circle the number that represents how comfortable you are doing them.

	Not Comfortable			Very Comfortable	
1. Talking in front of students in my class	1	2	3	4	5
2. Making a presentation to teachers	1	2	3	4	5
3. Planning an activity with other students	1	2	3	4	5
4. Showing other students how to do an activity	1	2	3	4	5
5. Expressing my ideas to other students	1	2	3	4	5