

1. Americans consume _____ % of the world's energy.
2. _____ % of total emissions comes from operating our homes.
3. Heating and cooling account for about ____ % of the energy use in a typical home.
4. We spend _____ % of our electricity bills on lighting.
5. Our demand for energy grows by about _____ % per year.
6. At any one time in most households an average of 8 appliances are left on stand-by. (Stand-by is an appliance's "off" setting, but the appliance continues to use about _____ % of the energy it uses while on—often so that it can listen for signals from remote controls.)
7. Energy-efficient washing machines use about _____ less electricity than older machines. (fraction goes in the blank)
8. Washing clothes at 140 degrees (F) uses almost twice the energy as a _____ degree (F) wash.
9. _____ % of the energy used by traditional bulbs is wasted in producing heat.
10. About _____ % of all the energy we use to heat our homes escapes through single-glazed windows.

11. Recycled aluminum saves 95 percent energy versus virgin aluminum; recycling of one aluminum can saves enough energy to run a TV for _____ hour.
12. Recycled glass saves _____ percent energy versus virgin glass.
13. Recycling of one glass container saves enough energy to light a 100-watt bulb for _____ hours.
14. Recycled paper generates _____ percent less air pollution: each ton saves 60 pounds of air pollution.
15. If we recycled every plastic bottle we used, we would keep _____ tons of plastic out of landfills.
16. The amount of energy Americans use doubles about every _____ years.
17. Electricity consumption is expected to increase _____ percent by 2030, according to the U.S. Department of Energy's Energy Information Administration (EIA).
18. If _____ schools turned off their lights for one minute it could save \$81,885.
19. **TRUE OR FALSE** : The average home contributes more air pollution than does the average car.
20. Did you know that just one wind turbine can produce enough electricity to power up to _____ homes

Name _____ Date _____ Period _____

Energy Trivia

Directions:

1. Walk around to the different lab stations 1-20
2. AT each station, read the card, and record your best guess to the question on the card.
3. Also, record your guess in the table below.
4. When you have completed all 18 stations, return to your seats
5. Volunteer to average the class answers to one of the 18 cards for a treat.
6. Return the card to the teacher!
7. As a class, go through the answers and record the class average, and the actual answer on the table.
8. Have fun!

#	My best guess is...	Class average answer	Actual answer...
1			
2			
3			
4			
5			
6			
7			
8			
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10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

1. Americans consume _____ % of the world's energy.
2. _____ % of total emissions comes from operating our homes.
3. Heating and cooling account for about _____ % of the energy use in a typical home.
4. We spend _____ % of our electricity bills on lighting.
5. Our demand for energy grows by about _____ % per year.
6. At any one time in most households an average of 8 appliances are left on stand-by. (Stand-by is an appliance's "off" setting, but the appliance continues to use about _____ % of the energy it uses while on—often so that it can listen for signals from remote controls.)
7. Energy-efficient washing machines use about _____ less electricity than older machines. (fraction goes in the blank)
8. Washing clothes at 140 degrees (F) uses almost twice the energy as a _____ degree (F) wash.
9. _____ % of the energy used by traditional bulbs is wasted in producing heat.
10. About _____% of all the energy we use to heat our homes escapes through single-glazed windows.
11. Recycled aluminum saves 95 percent energy versus virgin aluminum; recycling of one aluminum can saves enough energy to run a TV for _____ hour.
12. Recycled glass saves _____ percent energy versus virgin glass.
13. Recycling of one glass container saves enough energy to light a 100-watt bulb for _____ hours.
14. Recycled paper generates _____ percent less air pollution: each ton saves 60 pounds of air pollution.
15. If we recycled every plastic bottle we used, we would keep _____ tons of plastic out of landfills.
16. The amount of energy Americans use doubles about every _____ years.
17. Electricity consumption is expected to increase _____ percent by 2030, according to the U.S. Department of Energy's Energy Information Administration (EIA).
18. If _____ schools turned off their lights for one minute it could save \$81,885.
19. **TRUE OR FALSE** : The average home contributes more air pollution than does the average car.
20. Did you know that just one wind turbine can produce enough electricity to power up to _____ homes

1. Americans consume 26% of the world's energy.
2. 18% of total emissions comes from operating our homes.
3. Heating and cooling account for about 56% of the energy use in a typical home.
4. We spend 10% of our electricity bills on lighting.
5. Our demand for energy grows by about 3% per year.
6. At any one time in most households an average of 8 appliances are left on stand-by. (Stand-by is an appliance's "off" setting, but the appliance continues to use about 85% of the energy it uses while on—often so that it can listen for signals from remote controls.)
7. Energy-efficient washing machines use about 1/3 less electricity than older machines.
8. Washing clothes at 140 degrees (F) uses almost twice the energy as a 104 degree (F) wash.
9. 90% of the energy used by traditional bulbs is wasted in producing heat.
10. About 25% of all the energy we use to heat our homes escapes through single-glazed windows.
11. Recycled aluminum saves 95 percent energy versus virgin aluminum; recycling of one aluminum can saves enough energy to run a TV for three hour.
12. Recycled glass saves 50 percent energy versus virgin glass.
13. Recycling of one glass container saves enough energy to light a 100-watt bulb for four hours.
14. Recycled paper generates 95 percent less air pollution: each ton saves 60 pounds of air pollution.
15. If we recycled every plastic bottle we used, we would keep two billion tons of plastic out of landfills.
16. The amount of energy Americans use doubles about every 20 years.
17. Electricity consumption is expected to increase 45 percent by 2030, according to the U.S. Department of Energy's Energy Information Administration (EIA).
18. If 10,000 schools turned off their lights for one minute it could save \$81,885.
19. The average home contributes more air pollution than does the average car.
20. Did you know that just one wind turbine can produce enough electricity to power up to 300 homes