

Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

Instructor \_\_\_\_\_

## STUDENT ACTIVITY

### Chapter 19

## Internet Extension The Price of Power

### EXPLORE



The yearly cost of electricity and other utilities for a business can vary greatly depending on the size of the office space, but other factors also affect the final bill. Prices can vary depending on the location of the business and usage. There are, however, steps every business can take to save energy and lower its utility bills.

### DIRECTIONS



Locate an online energy calculator and figure out the yearly energy costs for a 2,000-square-foot building. Most energy calculators deal with residential buildings, but that will work fine for this activity. Include some variables, such as the number of windows and the amount of insulation in the building, in your calculations.

Keywords: \_\_\_\_\_

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Web Sites: \_\_\_\_\_

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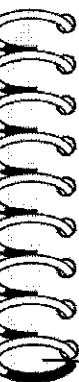
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### NET RESULTS



1. Building Details

2. Yearly Energy Cost



## STUDENT ACTIVITY *(continued)*

### Chapter 19

#### CRITICAL THINKING QUESTIONS



1. A kilowatt-hour is a measure of 1,000 watts of electricity used in one hour. If you used a 100-watt bulb for 20 hours, how much electricity would you consume?  

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2. What steps could you take to lower your building's energy bills?  

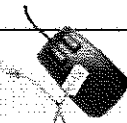
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3. Last month, your company used 8,750 kilowatt-hours of electricity with a peak load of 130 kilowatts. The demand charge was \$7.27 per kilowatt. The energy charge was \$0.067 per kilowatt-hour for the first 1,000 kilowatt-hours and \$0.05 for every kilowatt-hour over 1,000 kilowatt-hours. There was also a fuel adjustment charge of \$0.015 per kilowatt-hour. What was the total cost of electricity for the month?  

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#### EXTENSION EXERCISE



Look at the electricity bill for your home or the home of a relative or family friend. What is the average yearly electricity cost? What is the energy charge? Does the bill include a city tax? Share your findings with the class.