

Student Name: _____ Date: _____

What is the Cost? (part 1)

Do this survey twice: once in the morning before school, and once just before dinner. It will help you determine how much energy you use.

To finish the row, multiply the number of appliances you had on (take an average if you had more at one time than at the other survey time) by the cost to run that appliance (the fourth column). This is the cost per hour.

Some of these appliances will be on for more than one hour, some less. Based on what you know

about your household, write the total numbers of hours the appliance is on in the next column. To find the total cost per day for these appliances multiply the number of hours the appliance is on by the cost per hour.

Now find a subtotal for the cost per hour column by adding all the numbers in this column. This subtotal is the total cost for all these appliances in one hour. Do the same for the cost per day column. This is the total cost to run your appliances for one day.

Electrical Appliances	# on am	# on pm	multiply by	Cost per hour	Number of hours on per day	Total Cost Per Day
Example Appliance	2	2	\$0.02/hr	$2 \times 0.02 =$ \$0.04	10	$10 \times \$0.04$ per hour = 0.40 per day
Aquarium Equipment			\$0.01/two hours			
Video Game Console			\$0.01/two hours			
Flat Screen TV			\$0.04/hr			
Cable Box or Satellite Dish			\$0.02/hr			
Stereo System			\$0.01/two hours			
Laptop			\$0.01/two hours			
Vacuum Cleaner			\$0.07/hr			
Space Heater			\$0.16/hr			
Air Conditioner			\$0.55/hr			
Total Cost of energy for one hour					\$	
					Total Cost of energy in one day	\$
					Total Cost for energy in one month (multiply total in one day by 30)	\$



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What is the Cost? (part 2)

Periodic Appliances

Some items are not used all the time. They create a cost only when they are used. This chart gives you the total cost per month, based on how much your family uses these appliances.

Periodic Appliances Appliance and average use per month	Total per month
Gas water heater:	\$18.00
Electric water heater:	\$13.00
Refrigerator	\$7.00
Extra Freezer	\$7.90
Electric Heating System	
Small Home	\$53.00
Large Home	\$105.00
Gas Heating System	
Small Home	\$33.00
Large Home	\$66.00
Total for one month	\$

Appliances and loads per month	Multiply by	Total per month
Dishwasher loads	\$0.10 per load	
Washing machine loads	\$0.05 per load	
Electric dryer loads	\$0.33 per load	
Gas Clothes Dryer Loads	\$0.16 per load	
Total Usage for month		\$

With your teacher's help, figure out your home energy costs for one month. Compare it to a real bill someone receives each month. How do they compare?

My estimate: \$ _____ A real bill: \$ _____

Did your estimate come close to the actual cost? If not, why do you think they differ?

List three things you could do to lower your daily energy cost.

List three things you could do to lower your monthly energy cost.

