

A. Energy Concepts

1. A 60-Watt light bulb that is used for an average of 4 hours each day uses _____ kilowatt-hours of electricity per year.
Show work:

$$60\text{W} \times \frac{1\text{kW}}{1000\text{W}} \times \frac{4\text{hrs}}{1\text{day}} \times \frac{365\text{days}}{1\text{yr}} = 87.6\text{ kWh/yr}$$

2. If the cost of gas is \$3.50 per gallon and the average gas mileage of a car is 25 mpg, the cost of driving the car per mile is _____ \$/mi, or _____ ¢/mi.
Show work:

$$\frac{\$3.50}{1\text{gal}} \times \frac{1\text{gal}}{25\text{mi}} = 0.14$$

3. When energy that is stored in fossil fuels are burned, it changes form. Explain, using the law of thermodynamics, how energy forms change and what happens to it during the chemical change.

1st law energy is transformed from one form to another
 chemical → thermal → kinetic → mechanical → electrical

B. Energy Consumption

4. Explain how the major types of energy use have changed in the following historical circumstances:

- Industrial Revolution

After the industrial revolution, higher and faster consumption of fossil fuels

- Exponential growth of developing nations

more population → more consumption of fossil fuels

- Periods of energy crisis such as the gasoline shortage in 1970's

Opec embargo
 U.S. CAFE improved

5. At present, what are the top three types of energy used globally?

Oil, coal, Gas

6. In the future, how will energy needs and sources expected to change?

Nonrenewable energy will diminish in available resources.
 A change for alternatives is expected

Energy Study Guide Key

SA Dillow



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