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Lesson Outline

LESSON 2

Energy Transformations

Α.	Cha	iges Between Forms of Energy
	1.	A microwave oven changes electrical energy to energy.
	2.	The changes from electrical energy to radiant energy to thermal energy are called
		energy
В.	Cha	nges Between Kinetic and Potential Energy
	1.	When you throw a ball upward, the ball has its greatest speed and the most
		energy when it first leaves your hand.
	2.	As the ball reaches its highest point, the ball gains its greatest
		energy.
	3.	As the ball moves downward, energy decreases
		and energy increases.
C.	The	Law of Conservation of Energy
		According to the, energy can be transformed from one
		form into another or transferred from one region to another, but energy cannot be
		created or destroyed.
	2.	is a force that resists the motion of one surface over
		There is always some between any surfaces that are
		in contact with each other.
		As you pedal a bicycle, you do and transfer
		to the bicycle.
		Because of between moving parts of a bicycle, some
		of the work you do changes to energy.
		d. One way to reduce friction is to apply a(n) to surfaces that rub against each other.
		•. When you apply brakes on a bicycle, the bicycle's
		energy is not destroyed; instead, the bicycle'senergy

is transformed into thermal energy. The ______ amount of

energy remains the same.

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Lesson Outline continued

D.	Using Energy		
	1. You use.	energy for cooking a	and heating.

- **2.** Gas stoves and furnaces change ______ energy from natural gas into thermal energy.
- **3.** During photosynthesis, plants transform ______ energy from the Sun into chemical energy stored in food.
- 4. Your body changes the chemical energy stored in food into

 energy as you move and into

 energy, which keeps your body temperature high.
- 5. A television transforms ______ energy into sound energy and ______ energy.
- **6.** Many devices you use every day are powered by ______ energy from electrical power plants.
- **7.** With battery-powered devices, _______ energy is transformed into electrical energy for power.
- **8.** When energy changes form, some ______ energy is always released. Scientists often refer to this energy that cannot be used

9. Cars transform most of the chemical energy in gasoline into

_____energy.