Energy and Energy Resources

Which of the following is a conversion from light energy to chemical energy?

- A. Turning on a stove to heat dinner.
- B. Making toast in a toaster.
- C. Growing an apple tree.
- D. Turning on a lamp.

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Which of the following is a renewable resource?

- A. Wind energy
- B. Coal
- C. Petroleum
- D. Natural gas

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Gravitational potential energy is _____

- A. the total energy of motion and position of an object.
- B. the energy that is given to an object that is lifted.
- C. the energy of moving electrons.
- D. the ability to do work.

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Light energy is_____?

- A. the energy of motion.
- B. the ability to do work.
- C. the energy an object has because of its position.
- D. the energy that is produced by vibrations of electrically charged particles.

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When a bat hits a baseball, which of the following is transferred from the bat to the ball?

- A. Force
- B. Electrical energy
- C. Energy
- D. Work

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Which of the following converts kinetic energy into electrical energy?

- A. light bulb
- B. radiometer
- C. nutcracker
- D. electrical generator

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- B. radiometer
- C. nutcracker
- D. electrical generator

The ability to do work is called _____.

- A. sound energy
- B. kinetic energy
- C. energy
- D. electrical energy

The ability to do work is called _____.

- A. sound energy
- B. kinetic energy
- C. energy
- D. electrical energy

The energy caused by an object's vibrations is called _____.

- A. sound energy
- B. light energy
- C. mechanical energy
- D. electrical energy

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- A. sound energy
- B. light energy
- C. mechanical energy
- D. electrical energy

As a baseball flies through the air after being hit, which of the following types of energy does it have?

- A. potential
- B. kinetic
- C. mechanical
- D. chemical

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Which of the following is the formula for finding kinetic energy?

- A. $KE = m/v$
- B. $KE = mv/2$
- C. $KE = mv^2/2$
- D. $KE = v/2$

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When you eat fruit and vegetables, which of the following types of energy are you taking in?

- A. sound energy
- B. thermal energy
- C. electrical energy
- D. chemical energy

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Kinetic energy is _____

- A. the energy caused by an object's vibrations.
- B. the energy of motion.
- C. the energy that is given to an object when it is lifted.
- D. the total energy of motion and position of an object.

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Potential energy is _____

- A. the energy an object has because of its position.
- B. the total energy of motion and position of an object.
- C. the energy of moving electrons.
- D. the energy of motion.

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All the kinetic energy due to the random motion of the particles that make up the object is the _____.

- A. mechanical energy
- B. light energy
- C. thermal energy
- D. electrical energy

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- B. light energy
- C. thermal energy
- D. electrical energy

Which of the following can measure the energy from the sun?

- A. energy meter
- B. thermometer
- C. thermal meter
- D. radiometer

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- A. energy meter
- B. thermometer
- C. thermal meter
- D. radiometer

Any time an energy conversion takes place, some of the original energy is converted into which of the following?

- A. potential energy
- B. thermal energy
- C. light energy
- D. sound energy

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- A. potential energy
- B. thermal energy
- C. light energy
- D. sound energy

Fossil fuels are considered which of the following?

- A. kinetic resources
- B. renewable resources
- C. nonrenewable resources
- D. solar resources

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When is the potential energy the greatest in a roller coaster?

- A. at the bottom of the first hill
- B. at the top of the first hill
- C. at the top of the second hill
- D. at the bottom of the second hill

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- D. at the bottom of the second hill

What is a force that opposes motion between two surfaces that are touching?

- A. kinetic energy
- B. electrical energy
- C. nuclear fission
- D. friction

What is a force that opposes motion between two surfaces that are touching?

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- B. electrical energy
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What happens when electrical energy is changed to thermal energy?

- A. an energy change takes place
- B. a force change takes place
- C. an energy conversion takes place
- D. an electrical conversion takes place

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- A. an energy change takes place
- B. a force change takes place
- C. an energy conversion takes place
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The total energy of motion and position of an object is called _____.

- A. kinetic energy
- B. electrical energy
- C. mechanical energy
- D. potential energy

The total energy of motion and position of an object is called _____.

- A. kinetic energy
- B. electrical energy
- C. mechanical energy
- D. potential energy

The energy of moving electrons is _____ .

- A. electrical energy
- B. mechanical energy
- C. thermal energy
- D. kinetic energy

The energy of moving electrons is _____ .

- A. electrical energy
- B. mechanical energy
- C. thermal energy
- D. kinetic energy

After an energy conversion, you end up with the same total amount of energy as the original amount of potential energy. Which of the following laws explains this rule?

- A. law of energy changes
- B. law of power and energy
- C. law of potential energy
- D. law of conservation of energy

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- A. law of energy changes
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Which of the following is found when you compare the amount of energy before a conversion with the energy present after a conversion?

- A. potential energy
- B. energy efficiency
- C. energy source
- D. kinetic energy

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- A. potential energy
- B. energy efficiency
- C. energy source
- D. kinetic energy

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