

Question 1

Which of the following is a stored energy?

- A. A car crashes into a wall
 - B. Wood burns in a fireplace
 - C. *A book sits on a shelf*
 - D. An electric fan turns
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Question 2

What type of energy transformation happens when a microwave is turned on?

- A. Light energy into sound energy
 - B. Thermal energy into nuclear energy
 - C. *Electrical energy into heat energy*
 - D. Sound energy into electrical energy
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Question 3

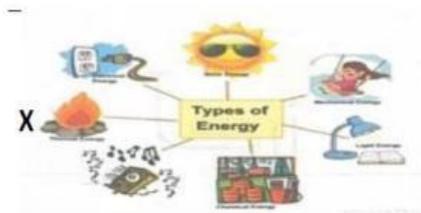
_____ is potential energy that is released when links between particles are broken or created.

- A. Nuclear energy
 - B. *Chemical energy*
 - C. Light energy
 - D. Sound energy
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Question 4

Which type of energy does letter (X) refer to?

- A. Heat energy
- B. *Chemical energy*
- C. Nuclear energy
- D. Sound energy



Question 5

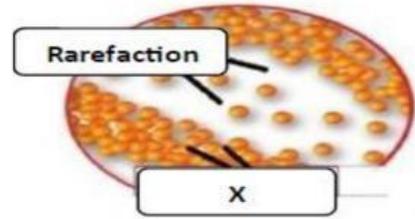
When you clap your hands, energy changes from:

- A. *Kinetic energy to sound energy*
 - B. Electrical energy to heat energy
 - C. Light energy to heat energy
 - D. Chemical energy to light energy
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Question 6

Which part of the sound wave has more particles and is represented by the letter (X)?

- A. *Compression*
- B. Peak
- C. Vibration
- D. Medium



Question 7

_____ are devices that use light from the sun to produce electricity.

- A. Circuit
- B. Sound wave
- C. *Solar cells*
- D. Dip

Question 8

Heat energy is a type of _____.

- A. Stored energy
- B. *Infrared energy*
- C. Energy of motion
- D. None of the above

Question 9

Which of the following is an insulator?

- A. Iron
- B. Copper
- C. *Wood*
- D. Gold

Question 10

When you turn on the _____, electricity flows to the lightbulb.

- A. Wire
- B. *Switch*
- C. Energy
- D. Heat

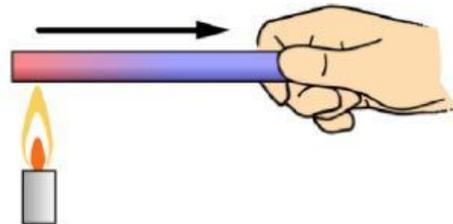
Question 11

The substance through which waves travel is called _____.

- A. Medium
- B. Particles
- C. Vibration
- D. Energy

Question 12

Based on the figure shown, which of the following best describes how thermal energy is transferred?

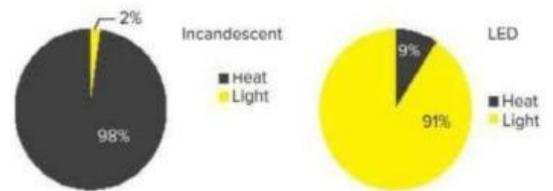


- A. Radiation
- B. Conduction
- C. Evaporation
- D. Convection

Question 13

The figure compares heat and light energy produced from LED and incandescent bulbs. What percentage of heat is produced by each?

- A. LED 91% and incandescent 2%
- B. LED 9% and incandescent 2%
- C. LED 98% and incandescent 91%
- D. LED 9% and incandescent 98%



Question 14

Based on the table, identify the best thermal conductor.

Thermal Conductivity	
Material	How Many Times Better Than Air It Conducts Heat
Oak wood	6
Water	23
Brick	25
Glass	42
Stainless steel	534
Aluminum	8,300
Copper	15,300
Silver	16,300

- A. Glass
- B. Silver
- C. Copper
- D. Water

Question 15

If the circuit is closed, the bulb will:

- A. Not light
- B. *Light*
- C. Explode
- D. Be dim