

1 Choose the correct answer.

_____ is stored and can be used when we need it.

_____ is energy in movement.

Energy is transformed from _____ to _____.

2 Complete the text according to the type of energy.

Mechanical energy

is the sum of potential energy and kinetic energy associated with position and movement.

Sound energy

is energy given off by sources of light.

Luminous energy

is the energy involved in transferring heat from one object to another.

Chemical energy

is associated with electrical charges and their movement

Nuclear energy

is energy stored in atoms, the smallest type of matter

Thermal energy

is energy stored in matter

Electrical energy

is transmitted through sound waves.

3 Match the actions to the energy transfers.

Switching on a torch.

Electrical to thermal.

Switching on a CD player.

Chemical to luminous.

Using a hairdryer.

Electrical to sound.

Lighting a fire.

Chemical to thermal.

4 Complete how does heat change the matter. Use the following words:

Temperatures / transferred / higher / lower.

When two objects with different _____ come into contact with each other, heat is _____ from the object with the _____ temperature to the object with the _____ temperature.

5 Write if it is a **chemical change** or a **physical change**.

When we cut a piece of wood to make a sculpture.

When we are boiling water.

When we are making caramel from sugar.

When a battery creates the electricity.

6 Complete according to the definition.

DISPERSION

REFRACTION

REFLECTION

Light waves travel through substances that separate white light into its different colours.

Light passes through transparent substances. Light energy changes direction slightly.

Light travels through air and hits opaque objects.

7 Now pick the words from the previous exercise and drop in the correct picture.



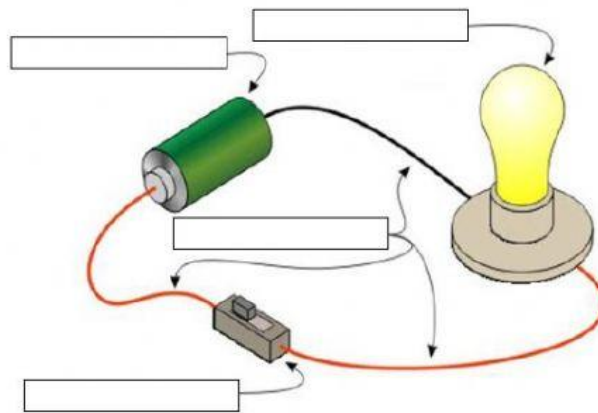
8 Drag and drop in the correct place.

GENERATOR (BATTERY)

SWITCH

Conductors—Wires

RECEPTOR (LIGHTBULB)



9 Choose the correct answer.

_____ allow electricity to flow.

_____ stop electricity from flowing.

_____ is when electrical charges accumulate in an object.

10 Listen and write T (True) or F (False).

1 Half the energy we use every day is used in our homes.

2 The most important use of energy in the home is for heating.

3 A dripping tap wastes 300 litres of water in just two weeks.

4 That's the same amount of water we use every month.

5 It's better to use a dishwasher because it saves water.

6 It's better to use a screen saver on your computer because it saves energy.