

ENERGY

1. CHOOSE THE CORRECT ONE:

- The sun is the most important source of _____ energy.
- _____ energy is produced when tiny particles move within an object. The faster they move, the more heat is generated.
- _____ energy is stored energy that is released when a chemical reaction takes place.
- _____ energy is made by vibrations – an object vibrates and causes air particles around it to vibrate, too.
- _____ energy is used to power machines. It can be transformed into many different forms of energy.

2. MATCH:

sound electrical thermal light chemical



Sound energy

kinetic energy

Mechanical energy

3. TRUE OR FALSE?

- Energy can be created and destroyed, but it cannot be changed.
- Energy changes from one form to another. This is called energy transformation.
- When wood burns, chemical energy is transformed into kinetic energy and thermal energy.
- When a plant uses sunlight during photosynthesis, light energy is transformed into chemical energy.
- A car transforms the kinetic energy stored in fuel into chemical energy so it can move.
- We use energy every day.
- We can only find energy outside.
- Solar panels, wind turbines and hydropower cause pollution.

4. COMPLETE:

When wood burns, energy is transformed into energy and thermal energy.

- Kinetic – chemical – electrical
- Potencial – light – chemical

A toaster transforms energy into energy.

- light – mecanical – electrical
- chemical – thermal - sound

When you step off a diving board, energy is transformed into energy.

- Electrical – chemical - potencial
- Kinetic – potencial - light

5. CHOOSE THE CORRECT ONE



Renewable energy sources will

- ☐ never run out.
- ☐ one day run out.

Wind turbines produce energy which is then converted into electrical energy.

mechanical

light

geothermal



panels transform light energy into electrical energy.

sun

heat

solar



energy is the heat that escapes from the Earth's core.

geothermal

solar

biomass



is plant or animal material used as a fuel to produce electricity or heat.

fossil fuel

geothermal

biomass



is created when moving water spins turbines.

Hydroelectric

Hydropower

Nuclear

6. MATCH:



RENEWABLE	NON-RENEWABLE
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7. MATCH:

LIGHT
THERMAL
CHEMICAL
SOUND
ELECTRICAL
POTENTIAL
KINETIC
MECHANICAL

Stored in objects
Moving particles (heat)
Sum of potential + kinetic
From the sun
Movement of an object
Made by vibrations
Powers machines
Stored in food/reactions