

TYPES OF ENERGY

Refer to this chart below to understand the different types of energy that exist in our world. Answer the Questions on the next two sheets.

Energy	What is it?	Example
Kinetic	energy of motion	A rolling ball, a running person
Potential	stored energy (or energy at rest)	A stretched rubber band, a book on a shelf
Thermal	energy from heat	Hot tea, fire, the sun's warmth
Electrical	energy from electric charges	Lightning, wires, batteries
Chemical	energy stored in substances	food, fuel, batteries
Light	energy we can see (part of electromagnetic energy)	sunlight, flashlights, fireflies
Sound	energy made by vibrations	Music, thunder, birds chirping
Nuclear	Energy from changes in atoms	Sun's energy, nuclear power plants
Renewable	Comes from sources that are naturally replaced	Solar, wind, hydropower
Non-renewable	Comes from sources that will run out	Coal, oil, natural gas



TYPES OF ENERGY WORKSHEET

What is Energy?

Energy is like the universe's secret sauce for getting things done! It's what makes cars zoom and the sun's rays dazzle!



Directions:

Complete the following worksheet to assess your knowledge on the different types of energy in our world. Follow the instructions to complete each part.

Part 1: Identify the Energy!

Instructions: Match each scenario to the correct form of energy.

1. _____ : A flashlight shining in the dark
2. _____ : A ball rolling down a hill
3. _____ : Warmth from a campfire
4. _____ : A violin making music
5. _____ : A wind turbine spinning
6. _____ : A sandwich giving you energy
7. _____ : A book sitting on a high shelf
8. _____ : A thunderstorm with lightning
9. _____ : A glowing firefly
10. _____ : The sun producing energy through fusion



TYPES OF ENERGY WORKSHEET

What is difference between Renewable and Non-Renewable Energy?

Renewable sources are Mother Nature's magic trick—they keep coming back for an encore! Non-renewable ones, though, are like a magician's disappearing act—they vanish and leave us hanging!



Part 2: Sort the Energy

Instructions: Sort these energy sources into renewable and non-renewable.

- Solar Power
- Coal
- Wind
- Natural Gas
- Biomass
- Hydropower
- Oil
- Geothermal
- Nuclear (from uranium)
- Propane

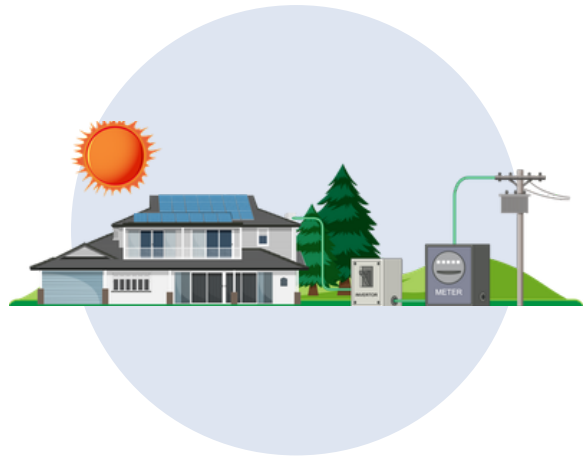
Renewable	NonRenewable

TYPES OF ENERGY

ANSWER SHEET

What is Energy?

Energy is the ability to do work or cause change. It powers everything—from the movement of a car to the light from the sun.



Directions:

Complete the following worksheet to assess your knowledge on the different types of energy in our world. Follow the instructions to complete each part.

Part 1: Identify the Energy!

Instructions: Match each scenario to the correct form of energy.

1. Light : A flashlight shining in the dark
2. Kinetic : A ball rolling down a hill
3. Thermal : Warmth from a campfire
4. Sound : A violin making music
5. Kinetic : A wind turbine spinning
6. Chemical : A sandwich giving you energy
7. Potential : A book sitting on a high shelf
8. Electrical : A thunderstorm with lightning
9. Light : A glowing firefly
10. Nuclear : The sun producing energy through fusion



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ANSWER SHEET

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Wind	Oil
Hydropower	Natural Gas
Geothermal	Nuclear (from uranium)
Biomass	Propane