

The Primary Stage of Grades (4-5)
School Year 2022 - 2023

Name: _____

Subject: Science
Study sheet 1 “Energy”

Date: / /

Class: Grade Four (A/B)

Objective/s Differentiate between renewable and non-renewable sources of energy.

Energy:

Energy is the ability to do work. It is what makes matter move or change.

The unit of energy:

The unit of energy is Joules, and it is often measured in Kilo joules.

1000 Joules = 1 KJ

Energy sources:

Energy sources can be classified into two types:

1- **Renewable energy sources:** are those which are continually being replaced naturally.

Example: energy from the sun (solar energy) and wind.

2- **Nonrenewable energy sources:** are resources that cannot be replaced, or may take millions of years to be replaced.

Example: Petrol, Gas, Coal.

Differences between renewable and non-renewable sources of energy:

	Renewable	Non-renewable
Definition	Can be replaced naturally in a short time.	These are natural resources that cannot be replaced, or may take millions of years to be replaced.
Examples	Wind energy, solar energy, hydroelectricity.	Coal, Natural gas.
Effect on the environment	No harm done to the environment from using them.	Huge harm to the environment because they give harmful gases when burnt.

Remember: Energy can exist in many forms such as light, sound, heat, and electricity.

