

TOPIC 6: LIGHT ENERGY

LESSON ONE AND TWO

VOCABULARY

- energy
- source
- natural
- artificial
- stimulate

LIGHT

Light is a form of energy that enables people to see.

It is a form of energy that stimulates our sense of seeing.

NB: We see things around us because light **from them** is reflected into **our eyes**.

Light as a form of energy

Light is a form of energy because it is capable of doing work.

Importance of light in the environment.

- ✓ Sunlight is absorbed by plants to make their own food.
- ✓ It enables us and other animals to see
- ✓ Our skins are able to make vitamin D.
- ✓ It is used for photography.
- ✓ We use artificial light on the streets to control traffic

What are sources of light?

Materials that give out light.

Sources of light

1. Natural sources of light
2. Artificial sources of light

Natural sources of light.

-These are sources of light provided by nature.

Examples of natural sources of light include

Sun, Star, Erupting volcanoes, Lightning, Glow worms, Fireflies

NB: - Of the above, some are very hot e.g. sun and stars, erupting volcanoes.

- Others are not hot e.g. Fireflies, glow worms

Artificial sources of light.

These are sources which are made by people.

Examples of artificial sources of light.

- Solar lamps
- -Electric lamps
- -Fluorescent tubes
- - Hurricane lamps

Objects that produce light are divided into two:

i) **Luminous objects**

ii) **Non luminous objects**

Luminous objects/ Direct sources

These are objects that produce their own light

Examples are sun, stars, erupting volcanoes, lamps, torches, burning charcoal etc.

Non luminous objects/ indirect sources.

These are objects that reflect light from other sources of light.

Examples of non- luminous are: the moon, the planets, and mirrors.

The speed of light.

The speed of light in normal air is 300000km/sec/ 3×10^8 m/sec.

Light travels faster in materials less dense than air e.g. warm and slowly in materials that are denser than air e.g. glass, water.