

LUMINOUS OBJECTS

LUMINOUS

An object that gives off its own light

E.g. Light bulb, sun, flashlight

NON LUMINOUS

An object that does not produce its own light
Can be seen by using reflected light

E.g. Tree, moon

SEVEN TYPES OF LUMINOUS OBJECTS

Incandescence

- * The production of light as a result of high temperature
- * ex: Light bulbs, fire, the sun



Phosphorescence

- * The process of producing light by the absorption of ultraviolet light resulting in the emission of visible light over an extended period of time
- * E.g. Glow in the dark watches, key chains,



Fluorescence

- * The immediate emission of visible light as a result of the absorption of ultraviolet light
- * E.g. Fluorescent light, Highlighters



Chemiluminescence

- * The direct production of light as the result of a chemical reaction with little or no heat produced.
- * Ex. Glowsticks



Bioluminescence

- * The production of light in living organisms as the result of a chemical reaction with little or no heat produced.
- * Ex. Glowworm, firefly, angler fish, jelly fish



Triboluminescence

- * The production of light from friction as a result of scratching, crushing, or rubbing certain crystals
- * E.g. Eating hard wintergreen flavoured candy

Light Emitting Diode (LED)

- * Light produced as a result of an electric current flowing in a semiconductor
- * Semiconductor - a material that allows an electric current to flow in only one direction

