

Name _____

The Electromagnetic Spectrum: Unveiling the Colors of Light

Short Answer Key

1. Visible light is the part of the electromagnetic spectrum that can be detected by the human eye, consisting of a range of colors with specific wavelengths. Unlike other types of electromagnetic waves, visible light allows us to perceive colors.
2. Microwaves are used in radar technology for weather forecasting and aviation.
3. The order of colors in visible light, from longest to shortest wavelength, is: red, orange, yellow, green, blue, indigo, and violet. An example of an object that appears blue in color is the sky on a clear day.
4. Ultraviolet (UV) waves are important in nature because they are responsible for the production of vitamin D in human skin when exposed to sunlight. UV light also causes fluorescent materials to glow and plays a role in attracting pollinators to some flowers.
5. X-rays have the ability to penetrate solid objects, and this property is utilized in medical imaging to see inside the human body and diagnose various medical conditions.

