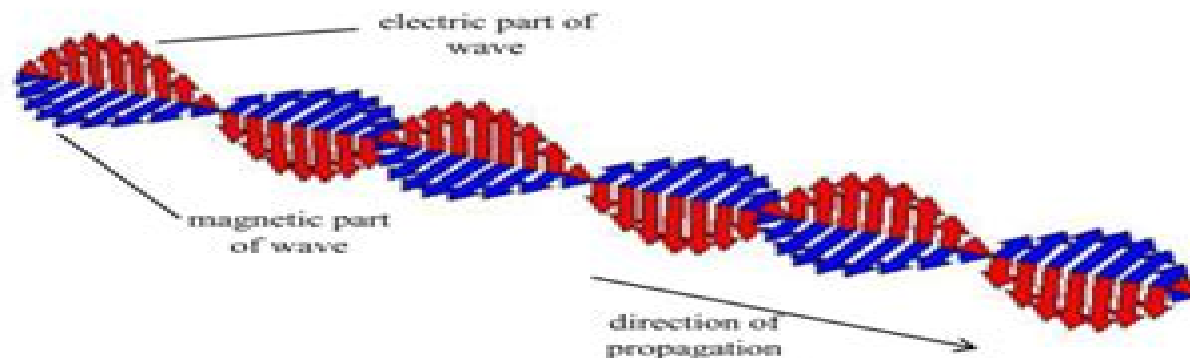


Conceptual Physics POGIL: The Electromagnetic Spectrum

The Nature of Electromagnetic Radiation

Electromagnetic radiation includes radio signals, microwaves, infrared, visible light, ultraviolet, X-rays, and gamma rays. One model of electromagnetic radiation is a propagating wave that is partially electric in nature and partially magnetic in nature. The following diagram is a pictorial description of this model:



This type of wave is called an *electromagnetic wave*.

Another model of electromagnetic radiation is a particle called a *photon*. It is a somewhat strange particle in that the laws of physics tell us that it has no mass and no volume, yet it must exist because we can observe its effects!

1. Scientist often say that light and other forms of electromagnetic radiation have a dual nature. What do you think they mean by this?
2. Are electromagnetic waves transverse or longitudinal? Justify your answer.

Conceptual Physics Pogil Electromagnetic Spectrum

Francis Bitter, Heinrich Medicus



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