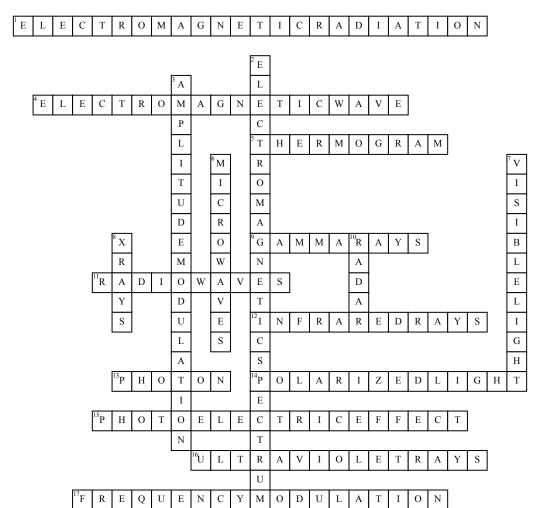
Name:	Date:	Period:

## Chapter 5: Electromagnetic Waves



## Across

- 1. the energy that electromagnetic waves transfer through matter or space
- **4.** a transverse wave that involves the transfer of electric and magnetic energy
- **5.** an image that shows reigons of different temperatures in different colors
- **9.** electromagnetic waves with the shortest wavelengths and the highest frequancies
- 11. elelectromagnetic waves with the longest wave lengths and lowest frequencies
- **12.** electromagnetic waves with wavelengths shorter than those of microwaves

- 13. a packet of light energy
- 14. the light that passes through
- **15.** light can cause an electron to move so much it is knocked out of the metal
- **16.** electromagnetic waves with wavelengths just shorter than those of visible light
- 17. a method of broadcasting signals by changing the frequency of a wave

## **Down**

- **2.** the complete range of electromagnetic waves placed in order of increasing frequency
- **3.** a method of broadcasting signals by changing the amplitude of a wave

- **6.** shorter wavelengths and higher frequencies
- 7. electromagnetic waves that you can see
- **8.** electromagnetic waves with wavelengths just shorter than ultraviolet rays
- **10.** uses reflected microwaves to detect objects and measure their distance and speed

## **Word Bank**

Radar Infrared Rays Electromagnetic spectrum thermogram Electromagnetic wave Gamma rays Radio waves Amplitude modulation Photoelectric effect Microwaves Ultraviolet rays Visible light Polarized light Photon X-rays Frequency modulation

Electromagnetic radiation