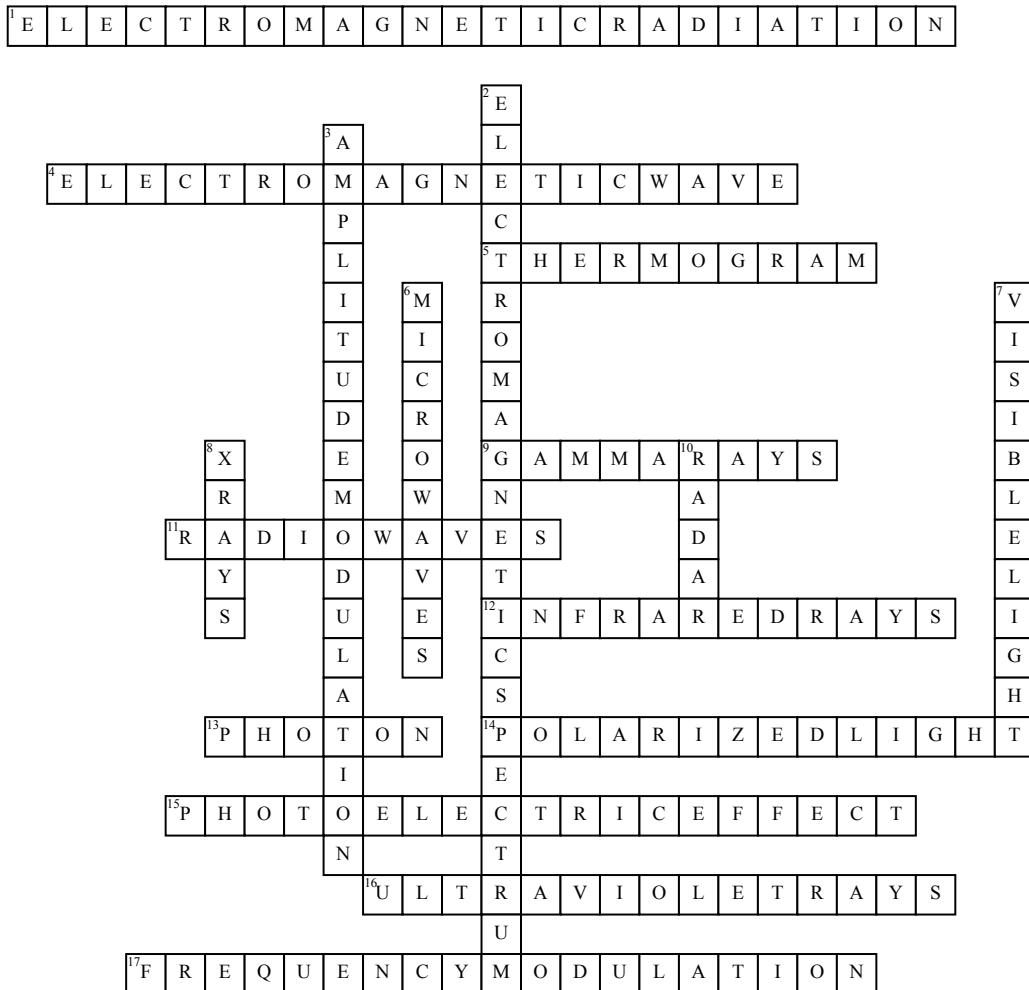


Chapter 5: Electromagnetic Waves



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 regions of different temperatures in different colors
9. electromagnetic waves with the shortest wavelengths and the highest frequencies
11. electromagnetic waves with the longest wavelengths 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

X-rays
Visible light
Infrared Rays
Photon
Photoelectric effect

Radar
Electromagnetic wave
Ultraviolet rays
Electromagnetic spectrum

Gamma rays
Electromagnetic radiation
Radio waves
Polarized light

Microwaves
thermogram
Frequency modulation
Amplitude modulation