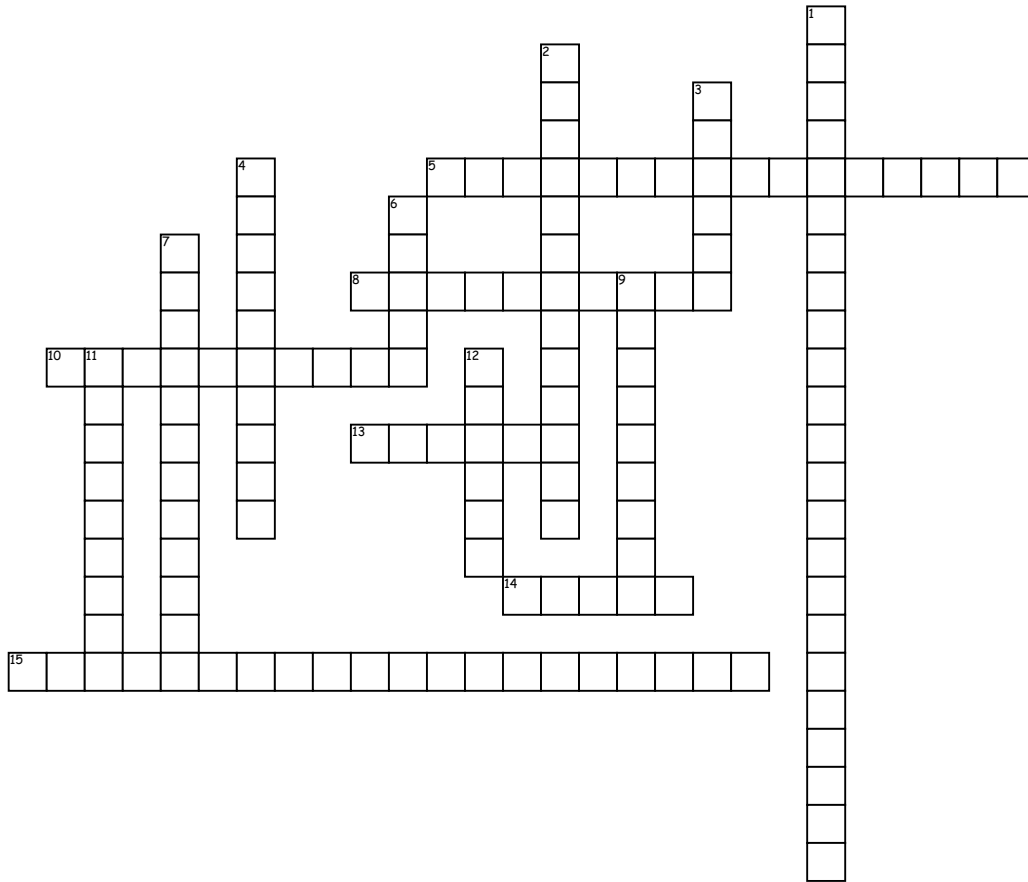


Electromagnetic Waves



Across

5. Are energetic enough to enter skin cells and exposure to these waves can cause skin damage and cancer.
8. Measure from crest to crest or trough to trough.
10. Are low frequency electromagnetic waves with wavelengths longer than about 1 mm. You can't hear these waves, they carry information and create sound.
13. Order of from lowest to highest frequency
14. The highest points on a transverse wave

15. Are made by vibrating electric charges and can travel through space where matter is not present

Down

1. Radiowaves, microwaves, infrared, visible light, ultraviolet, X-rays, and gamma rays are part of the _____
2. The warmth you feel is thermal energy transmitted to you by _____. Remote controls emits this
3. The lowest points on a transverse wave
4. widely used for communication, such as for cellular telephones and satellite signals. (In ovens)

6. Doctors and dentists use these to from images of internal organs, bones and teeth.

7. Is the range of electromagnetic waves that you can direct with your eyes.

9. These are the highest electromagnetic waves and can penetrate through several centimeters of lead.

11. A measure of the energy by a wave

12. Order from highest to lowest frequency

Word Bank

Microwaves
Amplitude
Ultraviolet waves
Wavelength
ROYGBV

gamma rays
Infrared waves
Electromagnetic waves
BVGYOR
Visible light

X-rays
Electromagnetic spectrum
Crest
Trough
Radio waves