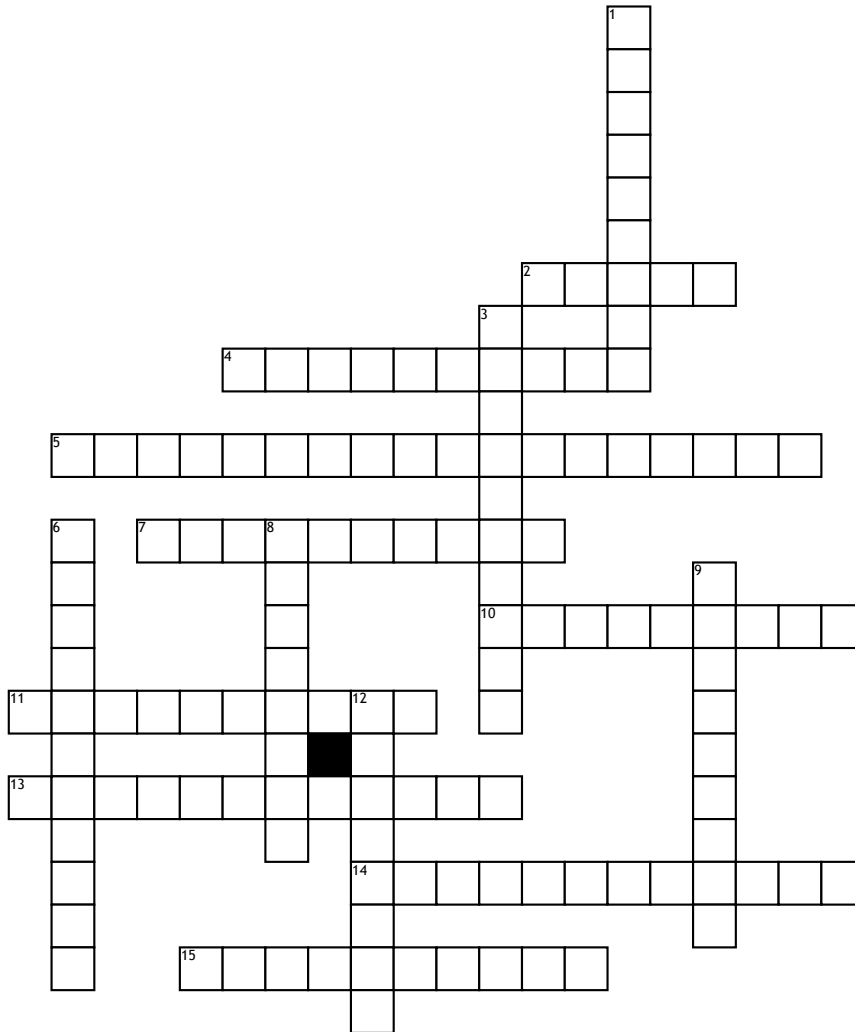


# Electromagnetic Spectrum



## Across

2. Electromagnetic waves used to view organs and bones  
 4. These waves heat up most of the food we eat  
 5. A spectrum of the electromagnetic radiation emitted by a source  
 7. These waves carry a signal to your television, cell phone, and you radio  
 10. Doctors use these rays to kill diseased cells  
 11. Longest wavelength in the EM spectrum and has the lowest frequency

13. These waves are visible to your eye and contain 7 colors that is called  
 14. Used to study the composition, distance, energy, and temperature of objects in space

15. Have shorter wavelengths than Radio Waves and are used for radar Images

## Down

1. Electromagnetic wave with the shortest wavelength and the most energy

3. The distance between the crest of one wave and the crest of the next wave

6. Electromagnetic wave that is emitted by our sun

8. Wavelength that is detected as heat

9. The lower the energy the lower the.....

12. Scientist use spectroscopes to observe a star's spectrum or

## Word Bank

Gamma Rays  
 Xrays  
 Radio Waves  
 Emission

Frequency  
 Microwaves  
 Spectroscope  
 Infrared

Wavelength  
 Visible light  
 Gamma Rays  
 Microwaves

Bright Line Emission  
 Radio Waves  
 Ultraviolet