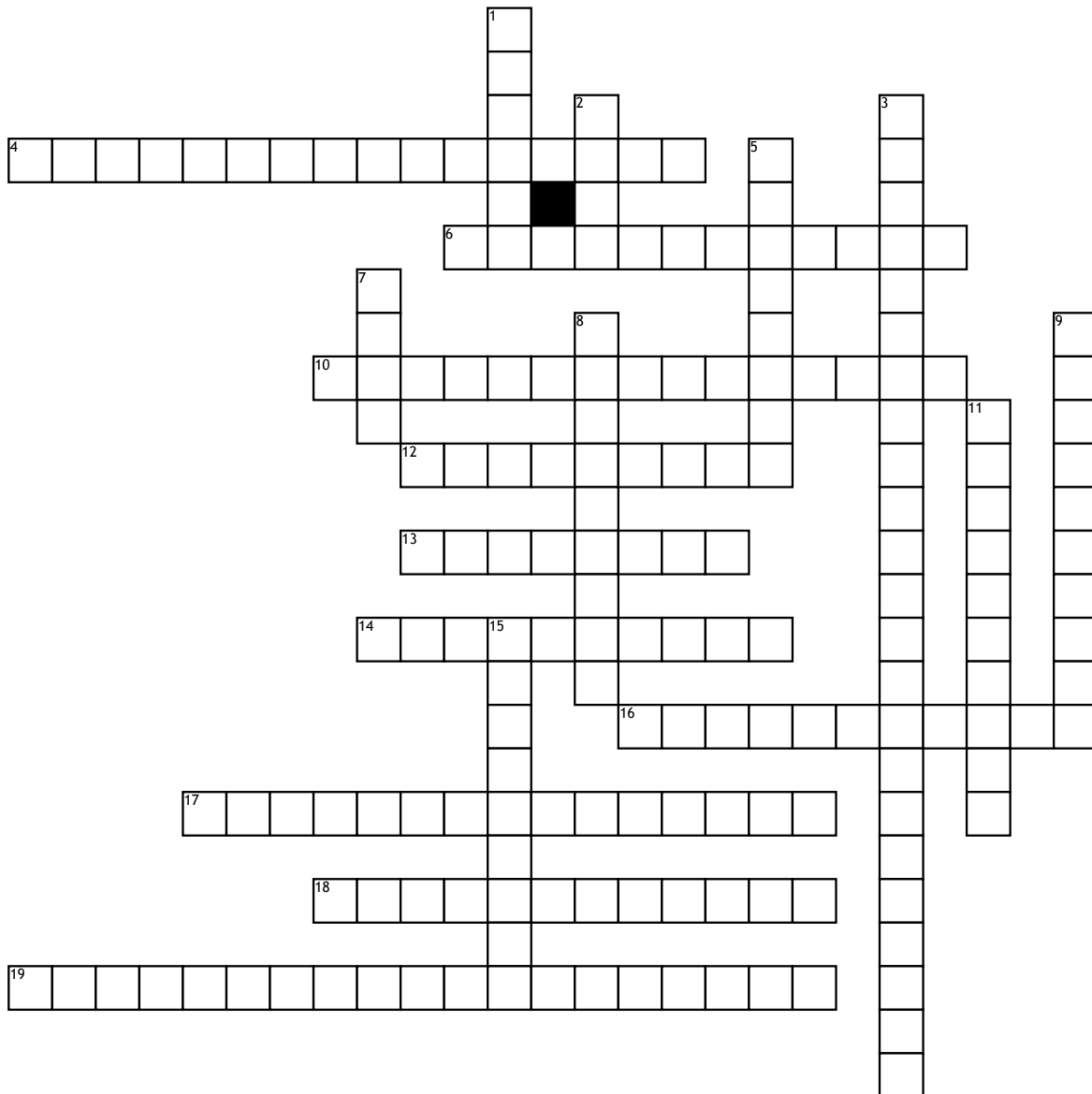


Name: _____

Behaviors of Waves and Electromagnetic Spectrum



Across

- 4. the only electromagnetic waves visible; given off by the sun and light bulbs
- 6. when two or more waves combine to form a new wave
- 10. angle of incidence is always equal to the angle of reflection
- 12. used for cooking, Doppler radar, and GPS
- 13. used to kill cancer cells, sterilize equipment, and in radioactive tracers
- 14. the bending of waves caused by a change in its speed as it moves from one medium through another

16. when an object causes a wave to change direction and bend around it

17. given off by the sun; used in light bulbs, to kill bacteria, and by the human body to make vitamin D

18. used in night vision goggles, remote controls, and infrared photography

19. electric and magnetic waves released by a vibrating electric charge, capable of transferring energy through a vacuum

Down

1. massless bundle of energy

2. disturbance that can carry energy

3. the entire range of frequencies of electromagnetic radiation

5. pieces of matter

7. used to take pictures of bones to check for fractures and breaks, also used in CAT scans

8. process where an object is made to vibrate at its natural frequency by absorbing the energy of another object that is vibrating at the same frequency

9. when a wave strikes an object and bounces off of it

11. when a wave strikes an object and goes into it

15. emitted by radio stations, MRI's, RADAR, Wi-Fi, TV, and cell phones