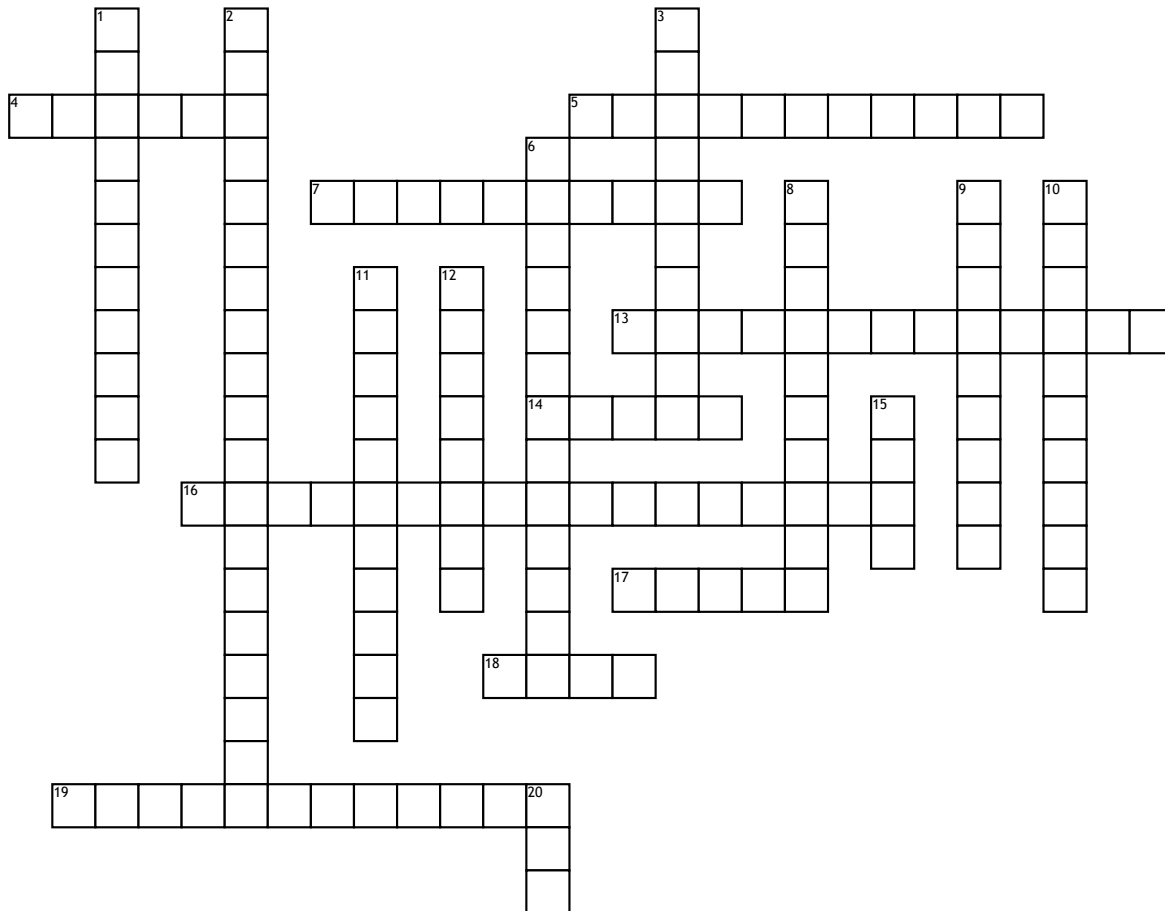


Name: _____

Date: _____

Waves



Across

4. light can't pass through it
 5. the distance along the optical axis from the mirror to the focal point
 7. transfer of energy by wave to the medium wave it travels
 13. a mirror that curves inward
 14. an optical device that produces a narrow beam of coherent light
 16. reflection of light from a smooth, shiny surface
 17. electromagnetic radiation that you can see

18. a transparent object with at least one curved side that causes light to change direction

19. a mirror that curves outward

Down

1. a material that allows almost all light that strikes to pass through it
 2. A wave that can travel through empty space and matter
 3. an optical device that forms magnified images of small objects
 6. any instrument or object used to produce or control light
 8. the point where light rays parallel to the optical axis converge after being reflected by a mirror or refracted by a lens

9. A low frequency, low-energy electromagnetic wave that has a wavelength longer than about 30cm
 10. the change in direction of a wave as it changes speed while moving from one medium to another
 11. a material that allows most of the light to pass through it
 12. a 3D photograph of an object
 15. one of the many cells in the retina that responds to color
 20. one of the many cells in the retina that respond to low light