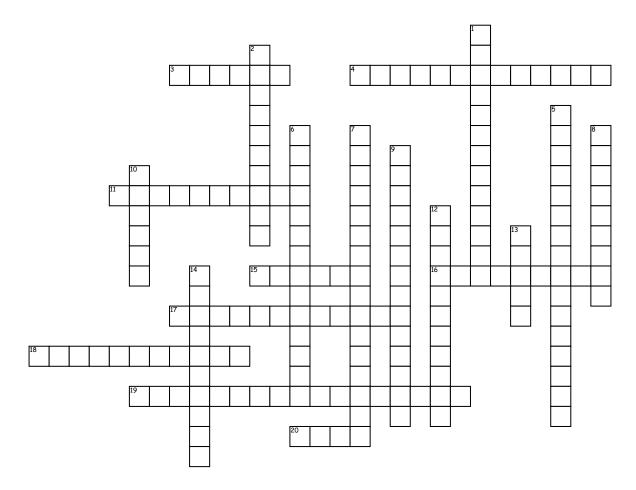
Name:	Date:	Period:

## waves



## **Across**

- 3. a surface that is either plane, concave, or convex and that reflects rays of light.
- 4. the increase or decrease in size of an image produced by an optical system compared to the true size
- 11. change in direction of a wavefront at an interface between two different media so that the wavefront returns into the medium from which it originated
- ${\bf 15}.$  the time needed for one complete cycle of vibration to pass a given point
- 16. the number of crests of a wave that move past a given point in a given unit of time
- 17. combination of two or more electromagnetic waveforms to form a resultant wave in which the displacement is either reinforced or canceled

- 18. a lens that possesses at least one surface that curves inwards It is a diverging lens, meaning that it spreads out light rays that have been refracted through it
- 19. the angle made by a reflected ray with a perpendicular to the reflecting surface
- ${\bf 20.}$  a disturbance on the surface of a liquid body

## <u>Down</u>

- 1. the angle of incidence beyond which rays of light passing through a denser medium to the surface of a less dense medium are no longer refracted but totally reflecte
- 2. the point at which rays or waves meet after reflection or refraction, or the point from which diverging rays or waves appear to proceed
- 5. the angle that an incident line or ray makes with a perpendicular to the surface at the point of incidence

- **6**. a wave vibrating at right angles to the direction of its propagation
- $\boldsymbol{7}.$  a wave vibrating in the direction of propagation
- 8. a line that is perpendicular to the light's wavefronts; its tangent is collinear with the wave vector
- 9. the degree to which a refractive medium retards transmitted rays of ligh
- 10. A substance that makes possible the transfer of energy from one location to another, especially through waves
- 12. the process by which a beam of light or other system of waves is spread out as a result of passing through a narrow aperture or across an edge
- 13. a vibration that propagates as a typically audible mechanical wave of pressure and displacement, through a medium such as air or water
- 14. a converging lens