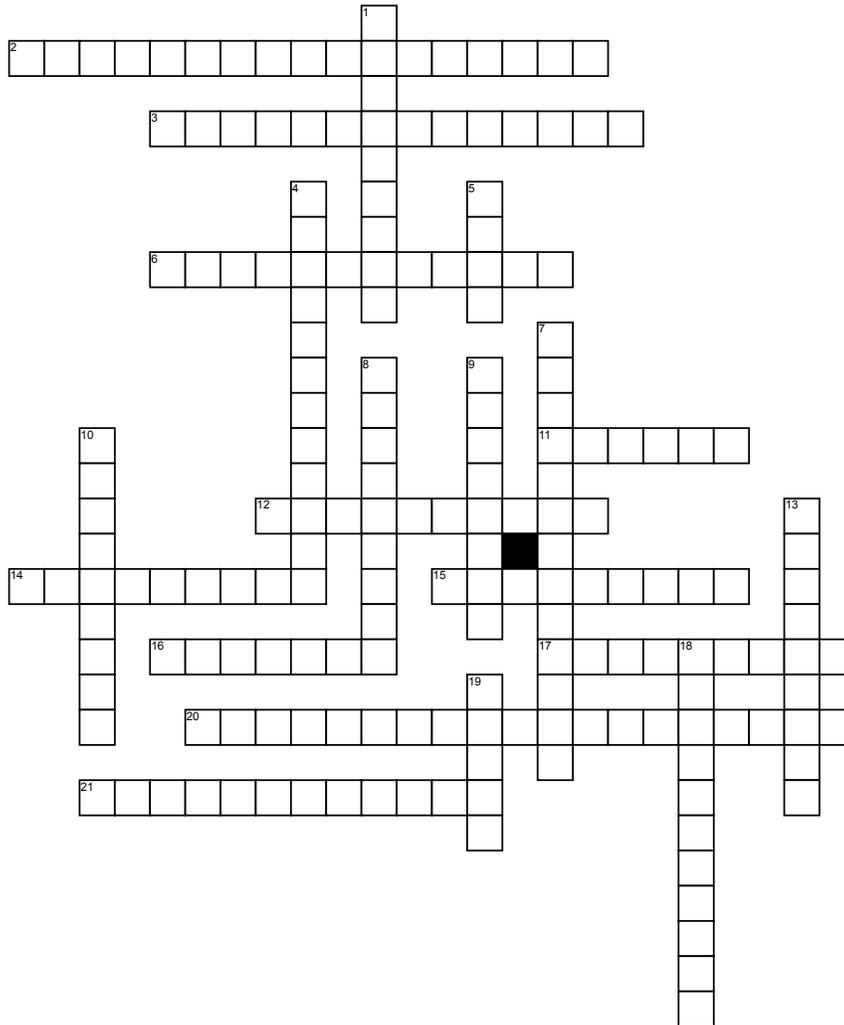


Name: _____

Date: _____

Period: _____

waves



Across

- 2. a wave vibrating in the direction of propagation
- 3. a wave vibrating at right angles to the direction of its propagation.
- 6. is a type of electromagnetic radiation, as are radio waves, ultraviolet radiation, X-rays and microwaves
- 11. a length or portion of time.
- 12. an electromagnetic wave of a frequency between about 10⁴ and 10¹¹ or 10¹² Hz, as used for long-distance communication.
- 14. a sharp change of pressure in a narrow region traveling through a medium
- 15. distance between successive crests, troughs, or identical parts of waves.
- 16. a wave or system of waves set up at the bows of a moving ship.

- 17. is the number of occurrences of a repeating event per unit of time.
- 20. a phenomenon in which two waves superpose to form a resultant wave of greater, lower, or the same amplitude.
- 21. form of electromagnetic (EM) radiation, as are radio waves, infrared radiation, ultraviolet radiation, X-rays and microwaves.

Down

- 1. The speed of a wave is only altered by alterations in the properties of the medium through which it travels.
- 4. vibration of a system which some particular points remain fixed while others between them vibrate with the maximum amplitude
- 5. electromagnetic wave of high energy and very short wavelength, which is able to pass through many materials opaque to light

- 7. an increase (or decrease) in the frequency of sound, light, or other waves as the source and observer move toward each other
- 8. for a wave or vibration, the maximum displacement on either side of the equilibrium (midpoint) position.
- 9. penetrating electromagnetic radiation of a kind arising from the radioactive decay of atomic nuclei.
- 10. an oven that cooks food very quickly or made to cook in one of these ovens.
- 13. The waveform traced by simple harmonic motion, which can be made visible on a moving conveyer belt by a pendulum swinging at r
- 18. having a wavelength shorter than that of the violet end of the visible spectrum but longer than that of X-rays.
- 19. the SI unit of frequency, equal to one cycle per second.

Word Bank

- | | | | | |
|---------------|----------------------|--------------------|-----------------|-----------|
| shock wave | hertz | longitudinal waves | radio wave's | bow wave |
| frequency | interference pattern | Doppler effect | transverse wave | microwave |
| wave speed | sine curve | infrared wave | wave length | amplitude |
| standing wave | visible light | x-ray | ultraviolet | period |
| gamma ray | | | | |