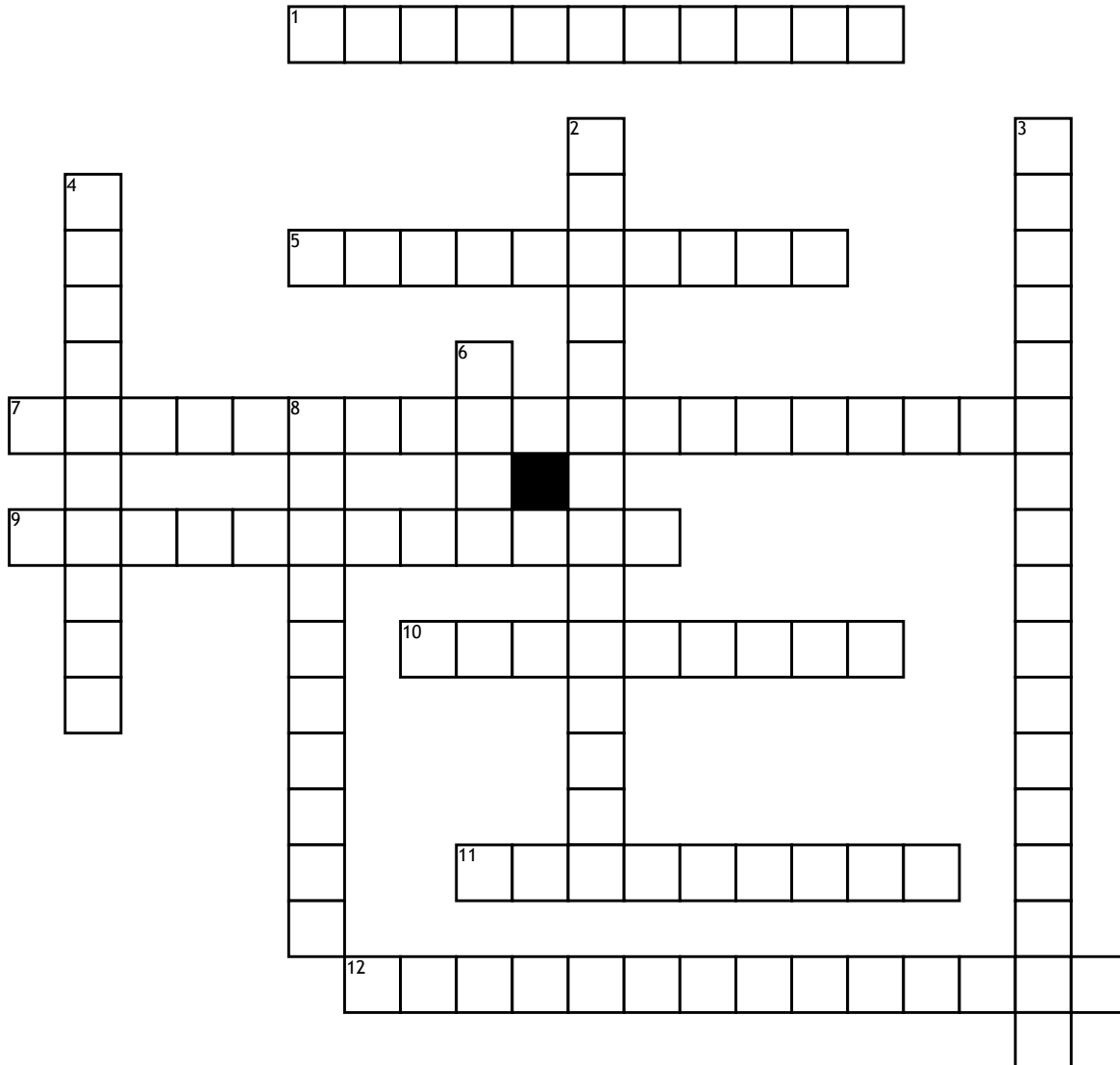


Science vocabulary puzzle



Across

1. 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, typically accompanied by interference between the wave forms produced.

5. change in direction of propagation of any wave

7. can be characterized by either the frequency or wavelength of their oscillations

9. the combination of two or more electromagnetic waveforms to form a resultant wave in which the displacement is either reinforced or canceled.

10. the distance from the centre line (or the still position) to the top of a crest or to the bottom of a trough.

11. the rate at which a vibration occurs that constitutes a wave

12. a wave vibrating at right angles to the direction of its propagation.

Down

2. is a wave that is an oscillation of matter, and therefore transfers energy through a medium.

3. a longitudinal wave (as a sound wave) propagated by the elastic compression of the medium.

4. the distance between successive crests of a wave

6. a periodic disturbance of the particles of a substance that may be propagated without net movement of the particles, such as in the passage of undulating motion, heat, or sound.

8. the throwing back by a body or surface of light, heat, or sound without absorbing it.