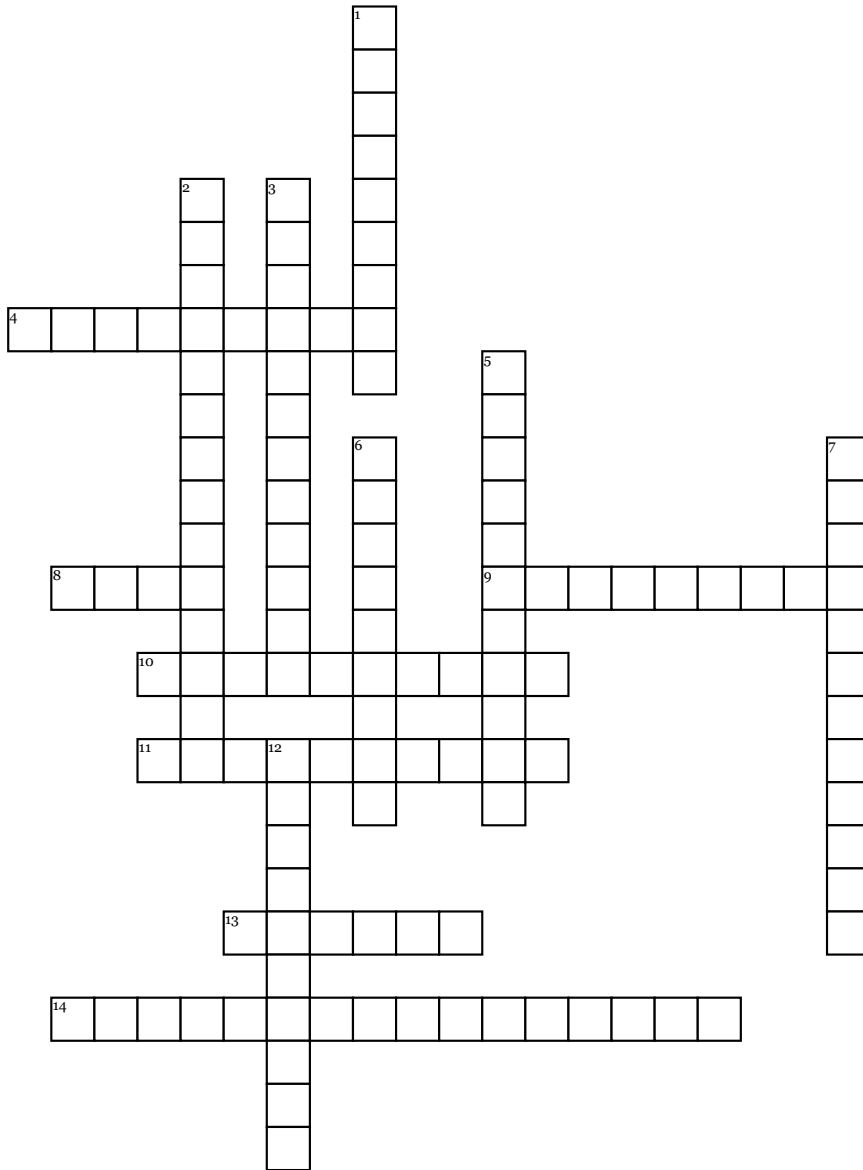


The Energy Of Waves



Across

4. A phenomenon that occurs when two objects naturally vibrate at the same frequency

8. Is any disturbance that transmits energy through matter or empty space

9. The maximum distance that the particles of a wave's medium vibrate from their rest position

10. The distance from any point on a wave to an identical point on the next wave

11. The bending of a wave as the wave passes between two substances in which the speed of the wave differs

13. Is a substance through which a wave can travel

14. a wave in which the particles of the medium vibrate parallel to the direction of wave motion

Down

1. The speed at which a wave travels through a medium

2. A wave in which the particles of medium move perpendicularly to the direction of the wave is traveling

3. A pattern of vibration that simulates a wave that is standing still

5. a change in the direction of a wave when the wave finds an obstacle or an edge, such as an opening

6. The number of waves produced in a given amount of time

7. The combination of two or more waves that results in a single wave

12. The bouncing back of a ray of light, sound, or heat when the ray hits a surface that it does not go through