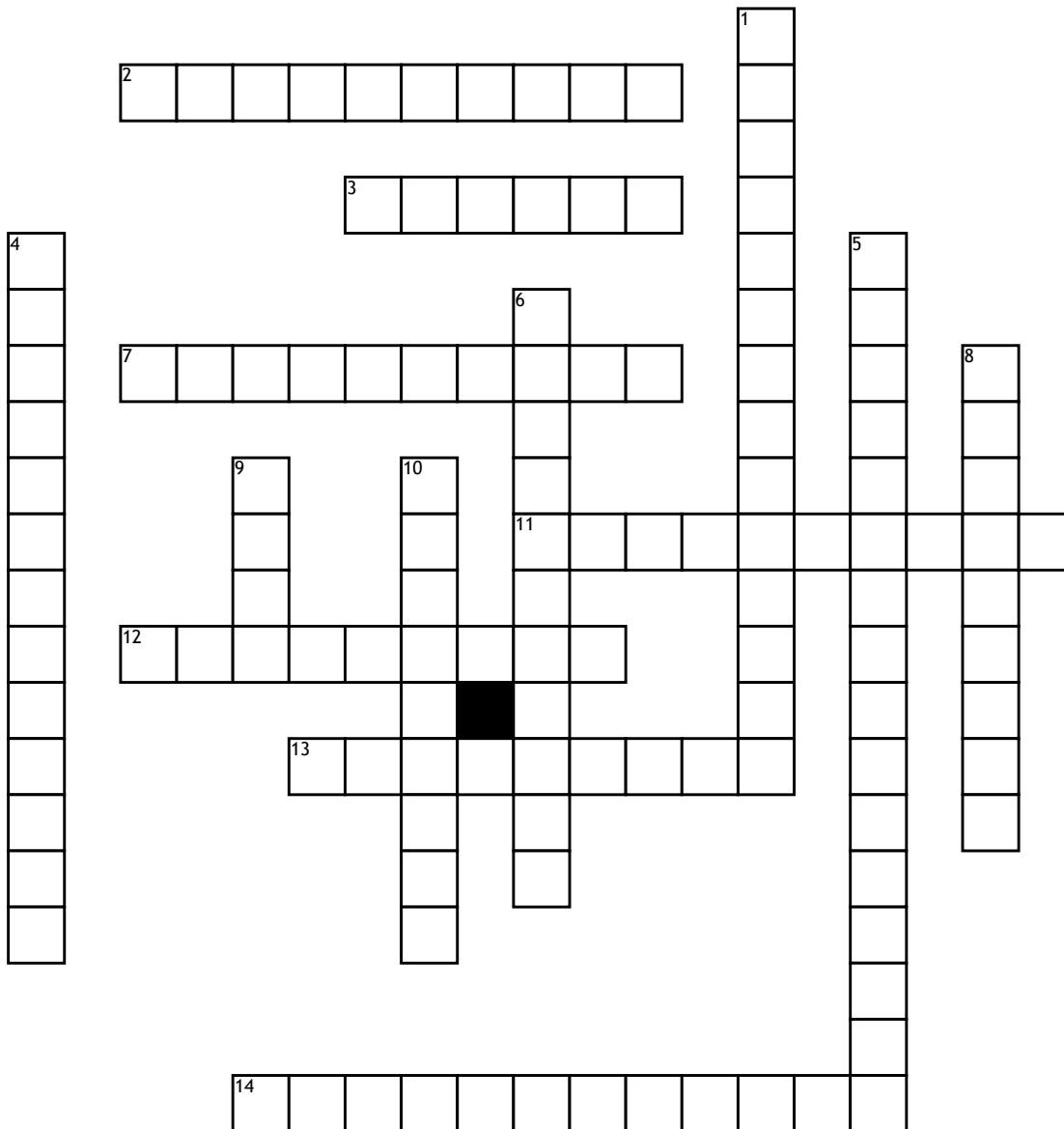


# The Energy Of Waves



## Across

2. is the distance between any two crest or compressions next to each other in a wave

3. is a substance through which a wave can travel

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

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

12. the number of waves produced in a given amount of time

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

14. the combination of two or more waves that result in a single wave

## Down

1. a wave in which the particles of the medium move perpendicularly to the direction of the wave is traveling

4. a pattern of vibration that simulates a wave that is standing still

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

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

8. a phenomenon that occurs when two objects naturally vibrate at the same frequency; the sound produced by one object causes the other object to vibrate

9. is any disturbance that transmits energy through matter or empty space

10. the speed at which a wave travels through a medium