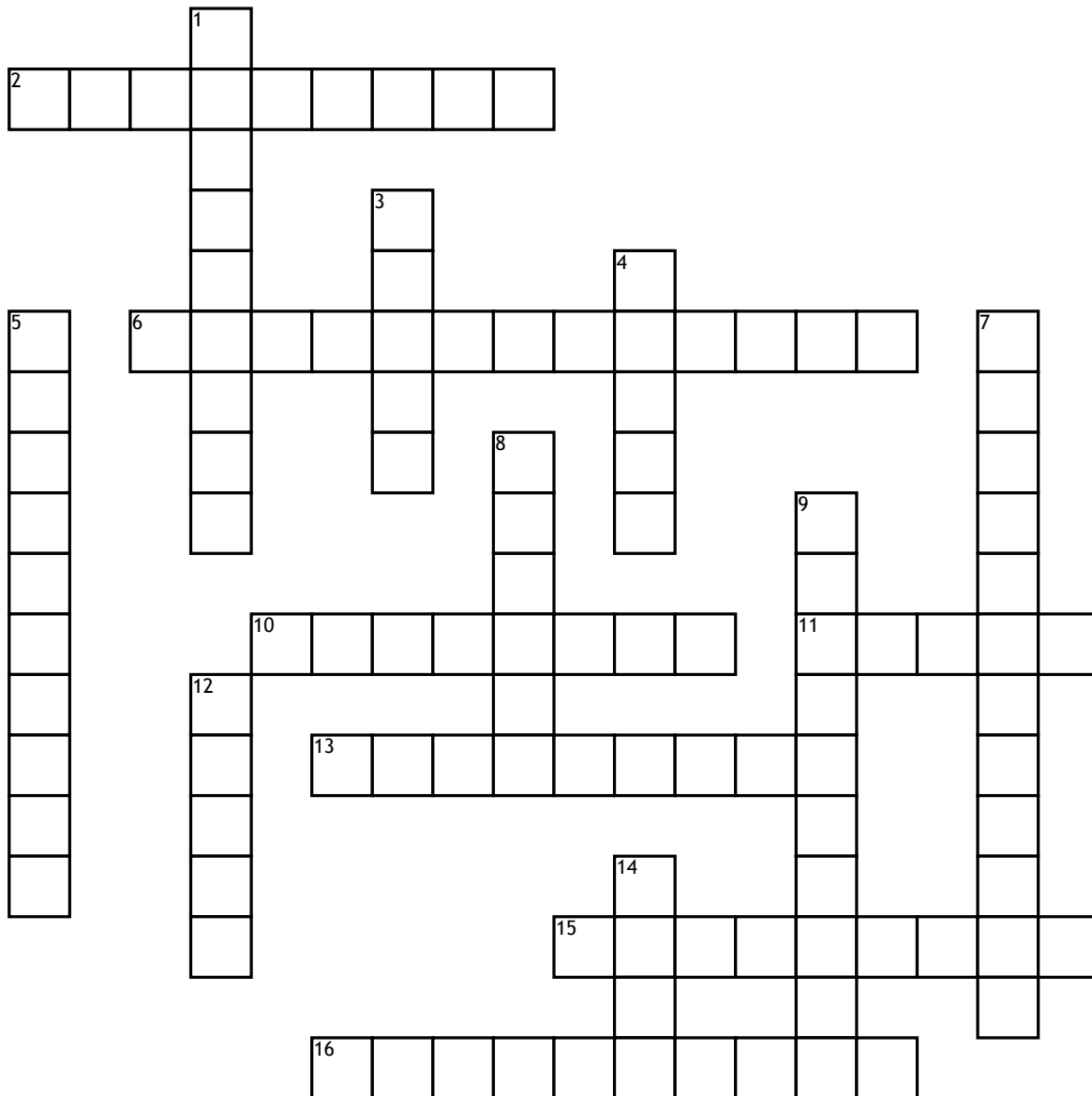


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Chapter 16 vocab



## Across

2. The rate at which energy flows through a given area of space.

6. The increase of an object's apparent size by using lenses or mirrors.

10. A line in space that matches the direction of the flow of radiant energy.

11. Sound navigation and ranging, a system that uses acoustic signals and returned echoes to determine the location of objects or to communicate.

13. A longitudinal wave that is caused by vibrations and that travels through a material medium.

15. An image that is formed by the intersection of light rays.

16. Any sound wave with frequencies higher than 20,000 Hz.

## Down

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

3. In optics, a system that consists of two or more plane surfaces of a transparent solid at an angle with each other.

4. Radio detection and ranging, a system that uses reflected radio waves to determine the velocity and location of objects.

5. Slow vibrations of frequencies lower than 20 Hz.

7. An image from which light rays appear to diverge, even though they are not actually focused there.

8. A particle of electromagnetic radiation that has zero rest mass and carries a quantum of energy.

9. In optics, the process of separating a wave of different frequencies into its individual component waves.

12. A measure of how high or low a sound is perceived to be, depending on the frequency of the sound wave.

14. A transparent object that refracts light waves such that they converge or diverge to create an image.