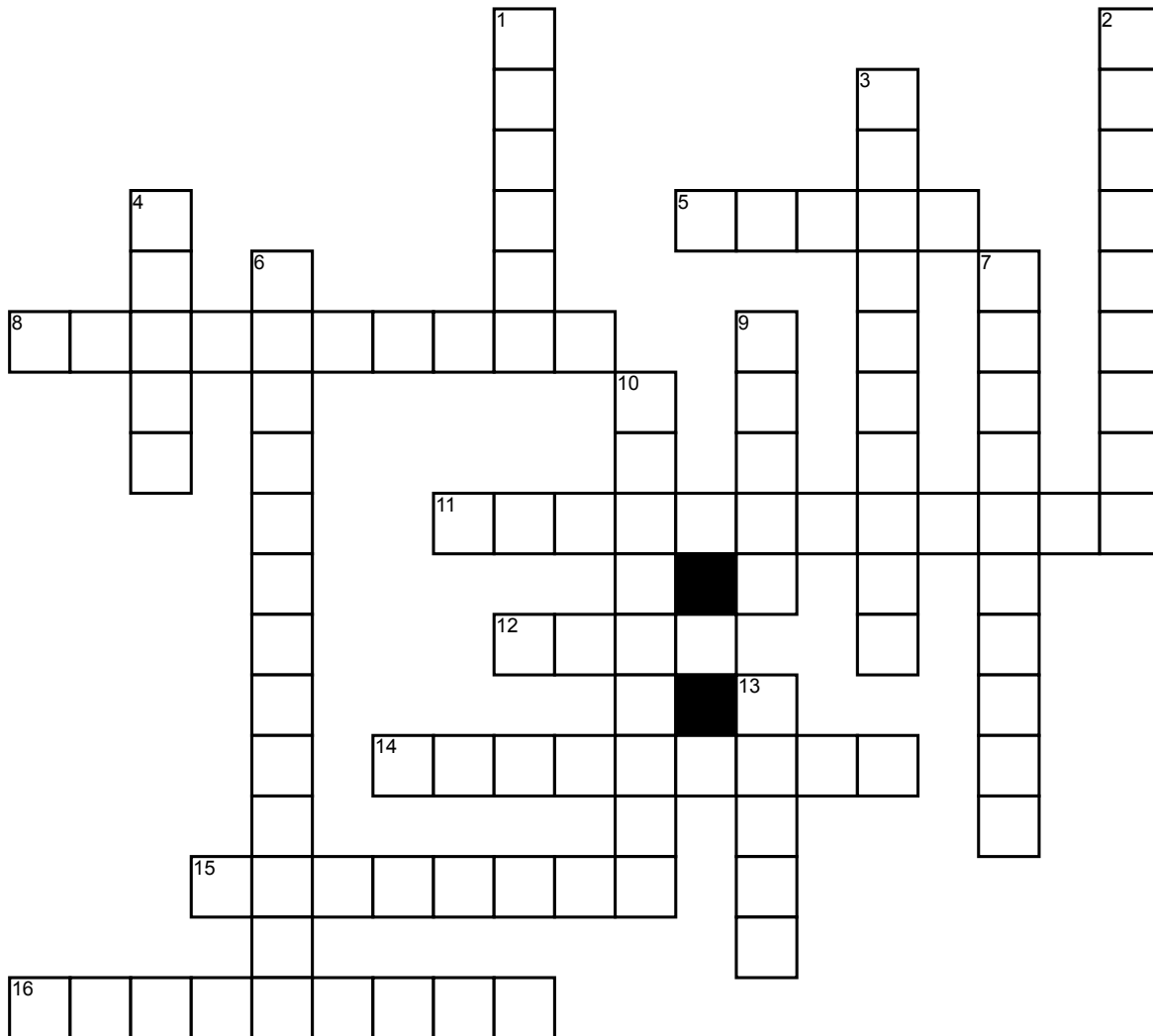


Name: _____

Date: _____

Chapter 16 Vocab - Light and Sound



Across

5. a system that consists of two or more plane surfaces of a transparent solid at an angle with each other

8. any sound with a frequency above human hearing

11. an image from which light rays appear to be diverge and cannot be projected on a screen

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

14. an image that is formed by the intersection of light rays and can be projected on a screen

15. a line in space that matches the direction of the flow of radiant energy

16. a phenomenon that occurs when two objects naturally vibrate at the same frequency and produce a sound

Down

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

2. a longitudinal wave that is caused by vibrations and travels through a medium

3. the process of separating a wave of different frequencies into its individual component waves - white light in different colors

4. a measure of how high or low a sound is perceived to be, depending on frequency

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

7. slow vibrations of frequencies lower than human hearing

9. a system that uses acoustic signals and returned echoes to determine location or communicate

10. the rate at which energy flows through a given area of space

13. a system that uses reflected radio waves to determine the velocity and location of objects