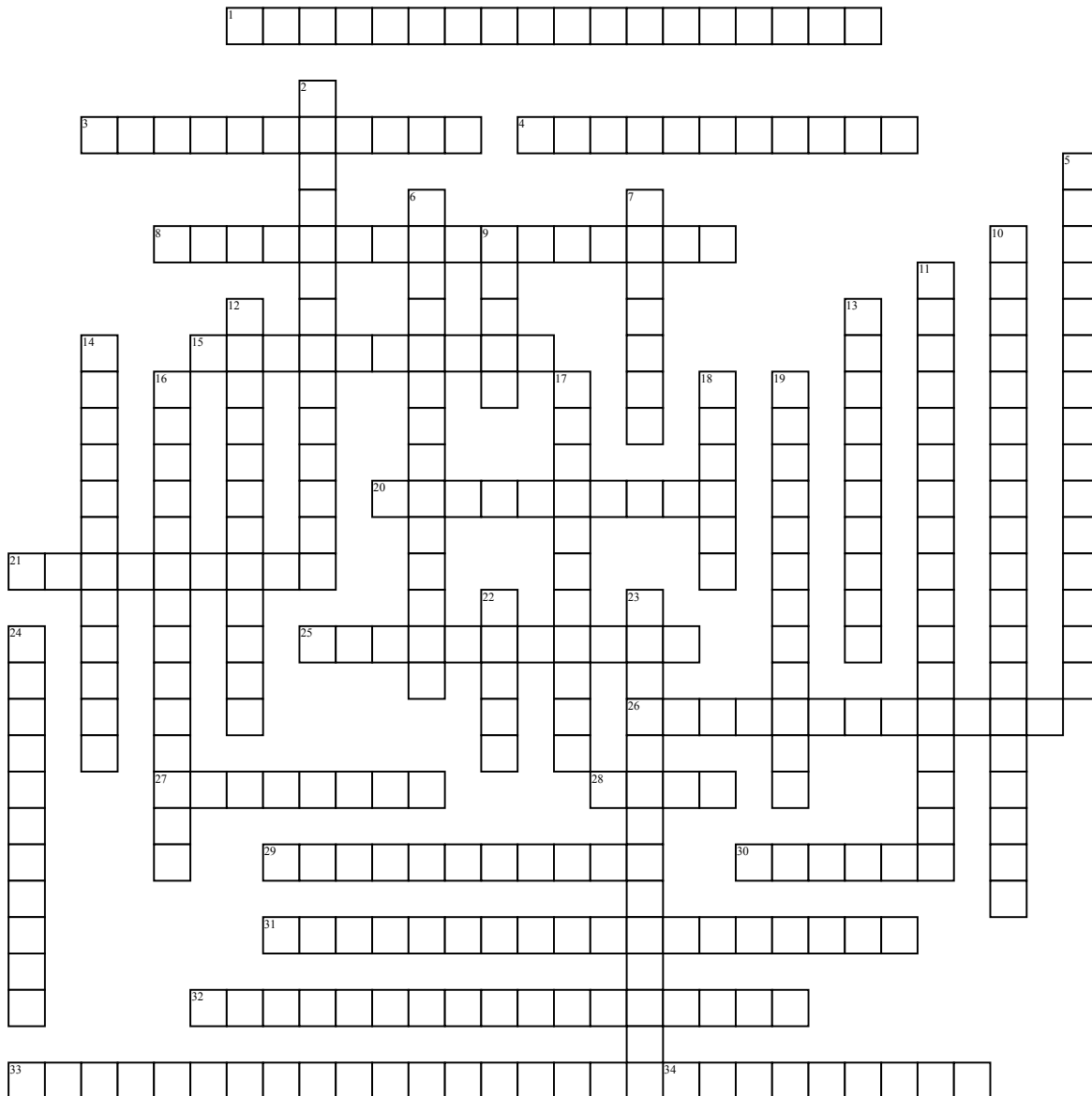


Name: _____

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Chapter 15, 16 & 17 Vocabulary Words



Across

1. a color of light, which when combined with another color of light, produces white light
3. a medium that transmits light and also can reflect a fraction of light, but does not allow objects to be seen clearly through it
4. For a musical instrument, the lowest frequency of sound that will resonate
8. red, green, and blue, each of which absorbs two primary colors to form white light and reflects one primary color
15. A pleasant set of pitches
20. An unpleasant, jarring sound set or pitches
21. A pressure variation transmitted through matter as a longitudinal wave; it reflects and interferes and has frequency, wavelength, speed, and amplitude
25. a flat, smooth surface from which light is reflected by regular reflection, producing a virtual image that is the same size as the object
26. red, green, and blue, which can be combined to form white light and mixed in pairs to produce the secondary colors: yellow, cyan and magenta
27. Sound integrity as sensed by the ear and interpreted by the brain; depends mainly on the pressure wave's amplitude

28. The oscillation of wave amplitude that results from the superposition of two sound waves with almost identical frequencies
29. the rate at which light strikes a surface, or falls on a unit area
30. a medium that absorbs light and reflects some light rather than transmitting it, preventing objects from being seen through it
31. a reflection produced by a smooth surface in which parallel light rays are reflected in parallel
32. a scattered, fuzzy reflection produced by a rough surface
33. even numbered multiples: 1/2 intervals
34. Higher frequencies, which are odd-numbered multiples of the fundamental frequency; give certain musical instruments their own unique timbre

Down

2. an object, such as the sun or an incandescent lamp, that emits light
5. a model that represents light as a ray that travels in a straight path, whose direction can be changed only by putting an obstruction in the path
6. cyan, magenta and yellow, each of which absorbs one primary color from white light and reflects two primary colors
7. The unit of measurement for sound level

9. The highness or lowness of a sound wave, which depends on the frequency of vibration
10. odd numbered multiples: 1/4 intervals
11. an object, such as the moon, that becomes visible as a result of the light reflecting off it
12. light whose waves oscillate only in a single plane
13. A logarithmic scale that measures amplitudes; depends on the ratio of the pressure variation of a particular sound wave to the pressure variation in the most faintly heart sound
14. the rate of which light energy is emitted from a luminous source
16. yellow, cyan, and magenta, each of which is produced by combining two primary colors
17. a medium that transmits light and also can reflect a fraction of light, allowing objects to be seen clearly through it
18. a luminous or illuminated source of light rays that are to be reflected by a mirrored surface
19. the image found of diverging light rays; is always the opposite side of the mirror from the object
22. the combination of image points in a plane mirror from which the reflected object seems to originate
23. The change in the frequency of sound caused by the movement of either the source, the detector, or both
24. the bending of light around a barrier