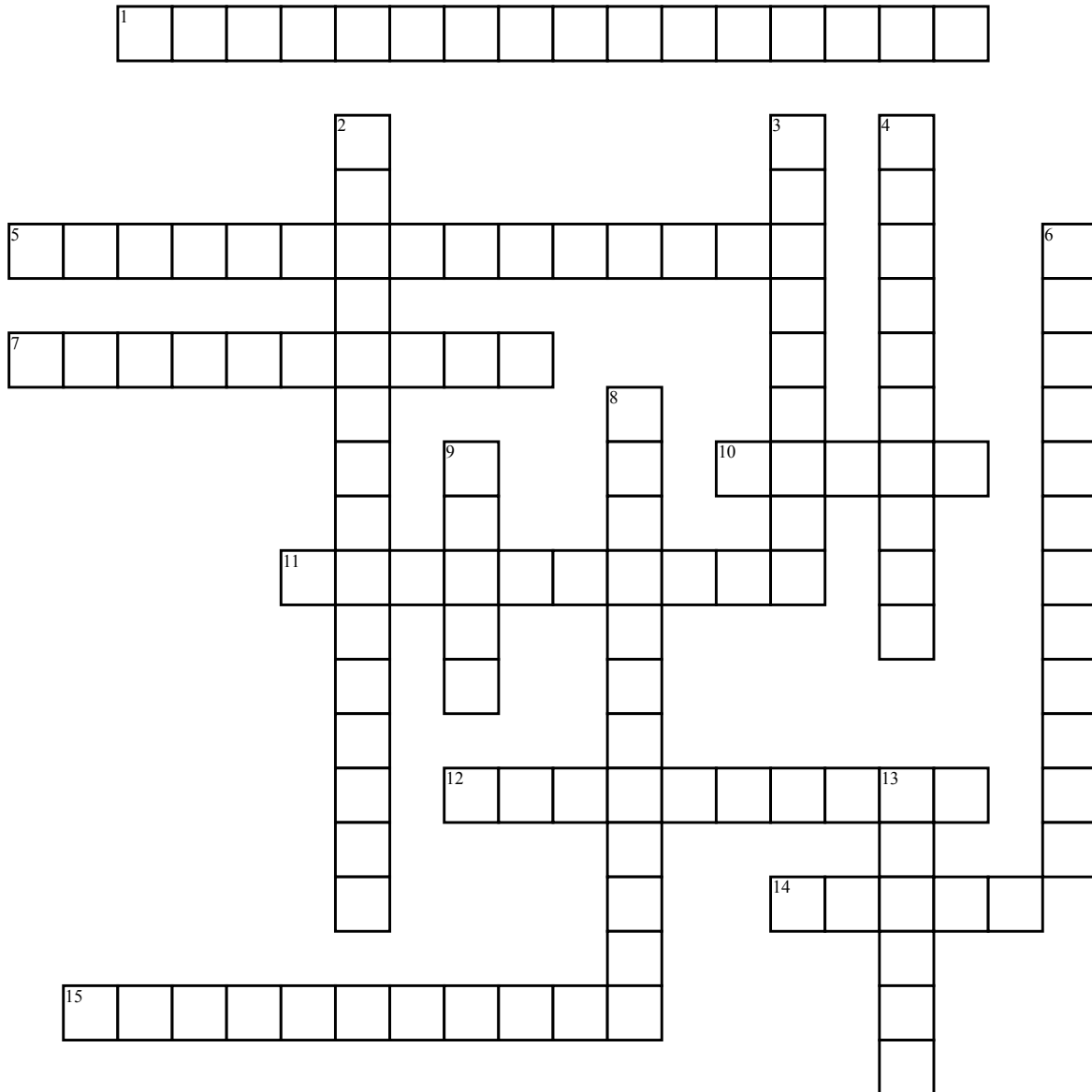


Sound and Light Crossword Puzzle



Across

1. Invisible light that is slightly more energetic than the highest frequency of visible light (violet). Is used in tanning beds, black lights, & for forensics. Over exposure can cause sunburn & skin cancer.
5. In order from least to greatest frequency, the colors in this range of the electromagnetic spectrum include red, orange, yellow, green, blue, & violet, and are the colors produced when white light passes through a prism.
7. The bending of a wave as it passes at an angle from one medium to another
10. uses the reflection of microwave radiation to detect the range, speed, and other characteristics of remote objects.

11. The lowest-energy, longest wavelength, & lowest frequency waves in the electromagnetic spectrum. Are used for cellular, radio, & television communication.
12. The bouncing back of a wave when it hits a surface it cannot pass through
14. The second most energetic type of light in the electromagnetic spectrum. Most commonly used to take pictures of bones inside the body.

15. Allowing some light to pass through

Down

2. The arrangement of waves of radiant energy in order of wavelength and frequency.
3. The most energetic (highest frequency, shortest wavelength) type of light in the electromagnetic spectrum. Naturally produced by exploding stars and used as a modern treatment for cancer.

4. Second lowest energy, longest wavelength, & lowest frequency waves in the electromagnetic spectrum. Are used to heat food as well as in wireless & broadband internet communication & radar.
6. The use of reflected sound waves by animals like dolphins, and bats, to detect objects or determine distances.
8. Light that is just below the visible frequency range of the electromagnetic spectrum. Naturally emitted by living things and other warm objects, it is also used for thermal imaging, night vision, and to provide heat.
9. A transparent material that separates white light into colors of the spectrum.
13. Impossible to see through; preventing the passage of light