Waves, Sound, and Light Crossword

Across
2. The material through which a wave travels
5. A wave that moves a medium in a direction parallel to the direction in which the wave travels
8. The highest part of a transverse wave
11. Electromagnetic waves with wavelengths shorter than ultraviolet rays, but longer than gamma rays
12. The lowest part of a transverse wave
15. An image that shows regions of different temperatures in different colors
17. Radio waves with the shortest wavelengths and the highest frequencies
18. Electromagnetic waves that are visible to the human eye
19. A wave that requires a medium through which to travel
20. Electromagnetic waves with the wavelengths shorter than radio waves but longer than visible light

Down
1. The part of a longitudinal wave where the particles of the medium are close together
3. Electromagnetic waves with the wavelengths shorter than visible light, but longer than X-rays
4. The distance between two corresponding parts of a wave
6. A wave that moves the medium in a direction perpendicular to the direction in which the wave travels
7. Transverse wave that transfers electrical and magnetic energy
9. Electromagnetic waves with the shortest wavelengths and highest frequencies
10. Electromagnetic waves with the longest wavelengths and lowest frequencies
13. The change in frequency of a wave as its source moves in relation to an observer
14. The part of a longitudinal wave where the particles of the medium are far apart
16. The number of complete waves that pass a given point in a certain amount of time