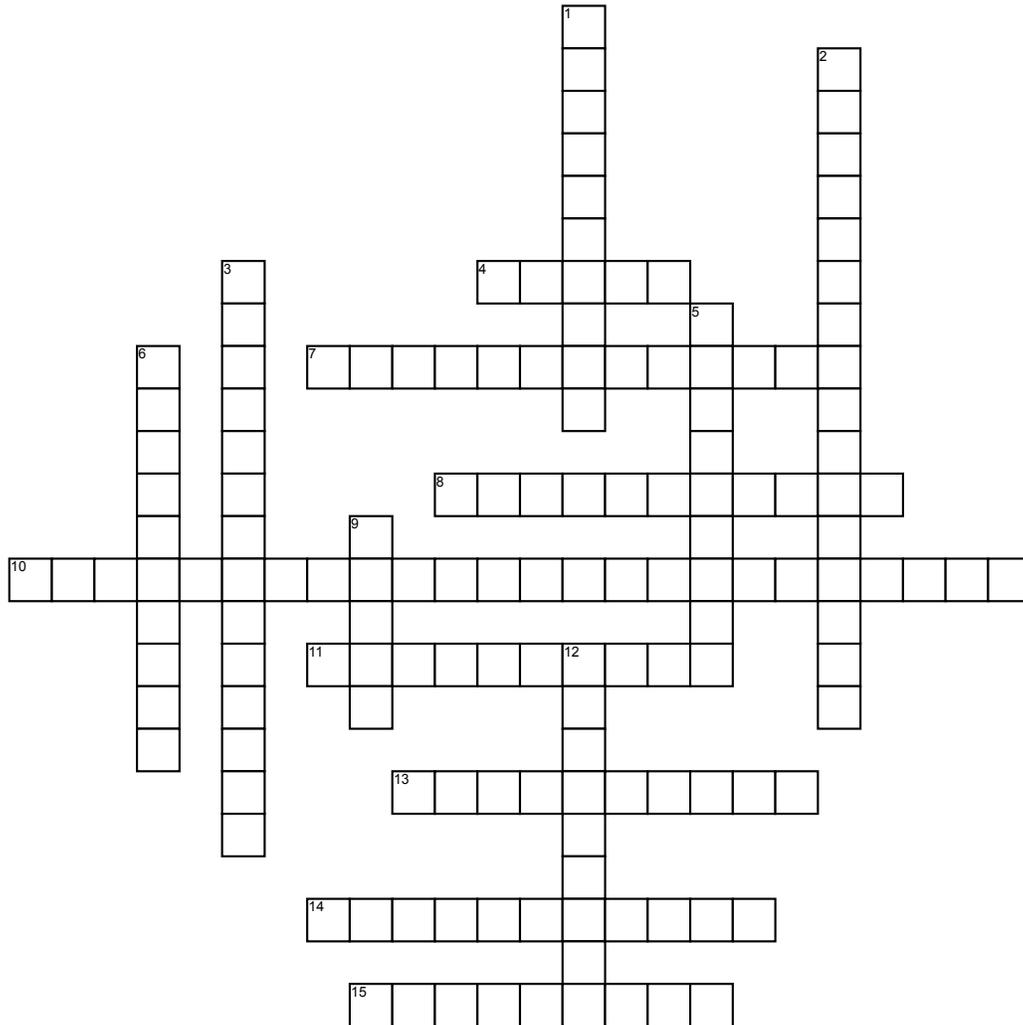


Name: _____

chapter 4 and 5 science



Across

4. A type of electromagnetic radiation that have a much shorter wavelength and a higher energy and frequency than ultraviolet waves
7. blank blank are a type of electromagnetic radiation that, relative to light, has longer wavelength and lower energy and frequency
8. this material allows light to pass through it freely
10. blank blank is the transmission of energy in the form of a waves that extend from the longest radio waves to the shortest gamma rays

11. blank blank are a type of electromagnetic radiation that have the longest wavelength and lowest energy and frequency compared to all other types
13. The distance from wave crest to crest or trough to trough
14. in a blank material, such as frosted glass or a lampshade, most light rays get through, but are scattered in all directions
15. blank is the number of repetitive motions, or oscillations, that occur in a given time

Down

1. blank have the shortest wavelength and highest frequency of all radio waves

2. In a blank, matter in a medium moves back and forth along the same direction as the wave travels
3. In a blank, matter in the medium moves up and down perpendicular to the direction that the wave travels
5. the highest energy and frequency and shortest wavelength portion of electromagnetic spectrum
6. blank is the bending or changing direction of a wave as it passes from one material to another
9. blank is sometimes used in weather forecasting
12. the blank is the height of a wave crest or depth of a wave trough, as measured at rest position

Word Bank

radar
electromagnetic radiation
x rays
compression waves
translucent

refraction
transparent
Amplitude
radio waves
Frequency

infrared waves
wavelength
gamma rays
Transverse wave
microwaves