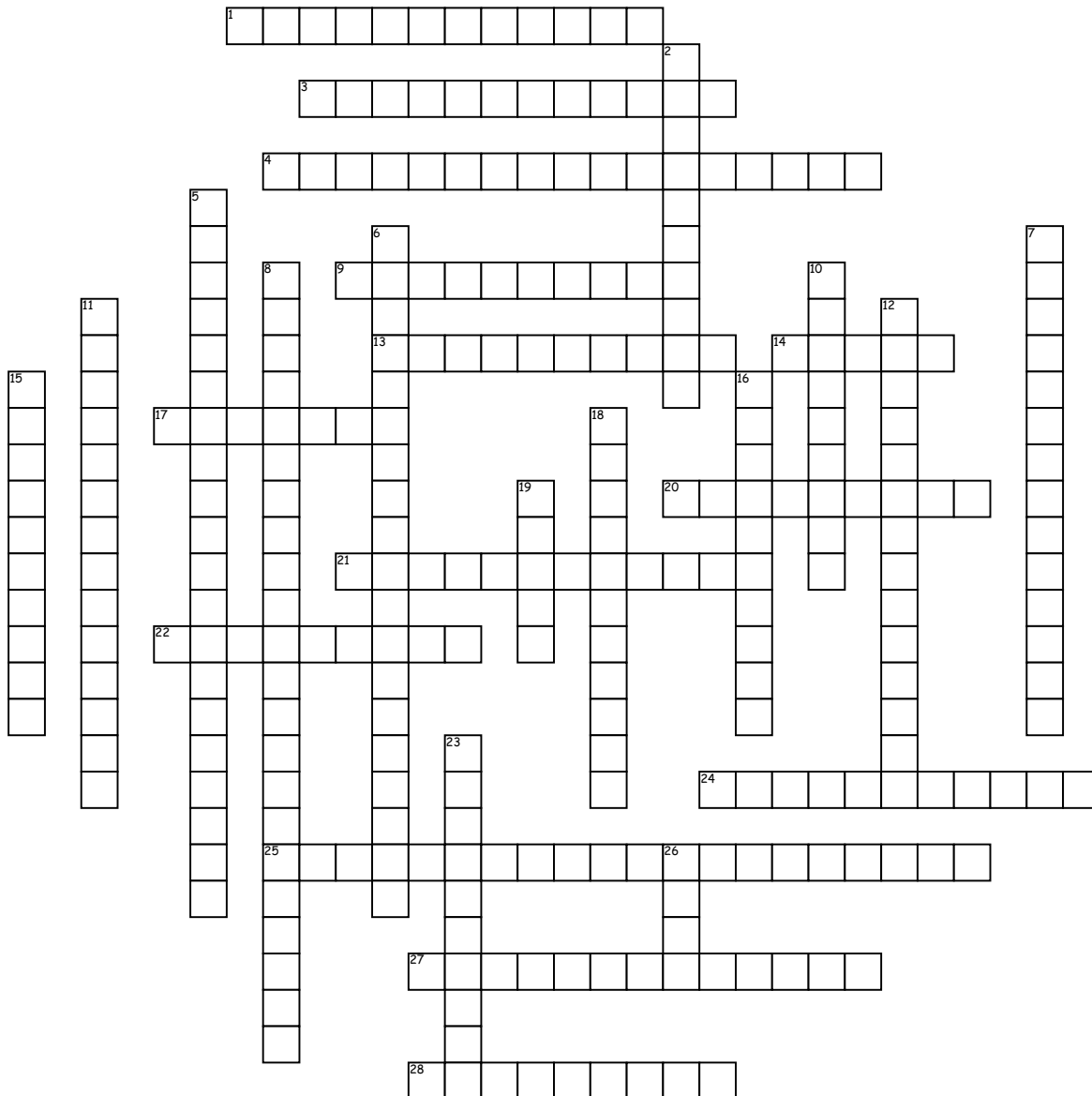


Name: _____

P11 & P12 Crossword



Across

1. A wave passing through a substance
3. Waves used to carry any type of signal
4. Waves in which the vibrations are parallel to the direction of energy transfer
9. Light that includes all the colours of the spectrum
13. The change of direction of a light ray when it passes across a boundary between two transparent substances (including air)
14. The speed of an object (metres per second) = distance moved by the object (metres) / time taken to move the distance travelled (seconds)
17. Oscillate (move to and fro) rapidly about a certain position
20. The number of the wave crests passing a fixed point every second
21. Thin glass fibre used to transmit light signals
22. The distance travelled per second by a wave crest or trough

Down

2. The change of direction of a light ray or wave at a boundary when the ray wave stays in the incident medium
5. Electromagnetic waves between visible light and x-rays in the electromagnetic spectrum
6. An electronic device that creates an electronic signal from an optical image formed on the CCD's array of pixels
7. A wave where the vibration is perpendicular to the direction of energy transfer
8. The continuous spectrum of electromagnetic waves
23. Squeezing together
25. Electric and magnetic disturbances that transfer energy from one place to another
27. Amount of ionising radiation a person receives
28. Move to and fro about a certain position along a line

10. The height of a wave crest or trough of a transverse wave from the rest position. For oscillating motion, the amplitude is the maximum distance moved by an oscillating object from its equilibrium position
11. An x-ray absorbing substance used to fill a body organ so the organ can be seen on radiograph
12. Vibration that travels through a substance
15. Electromagnetic waves of wavelengths greater than 0.10m
16. The distance from one wave crest to the next
18. Stretched apart
19. Electromagnetic waves smaller in wavelength than ultraviolet radiation and produced by x-ray tubes
23. Electromagnetic waves between infrared radiation and radio waves in the electromagnetic spectrum
26. Reflection of sound that can be heard