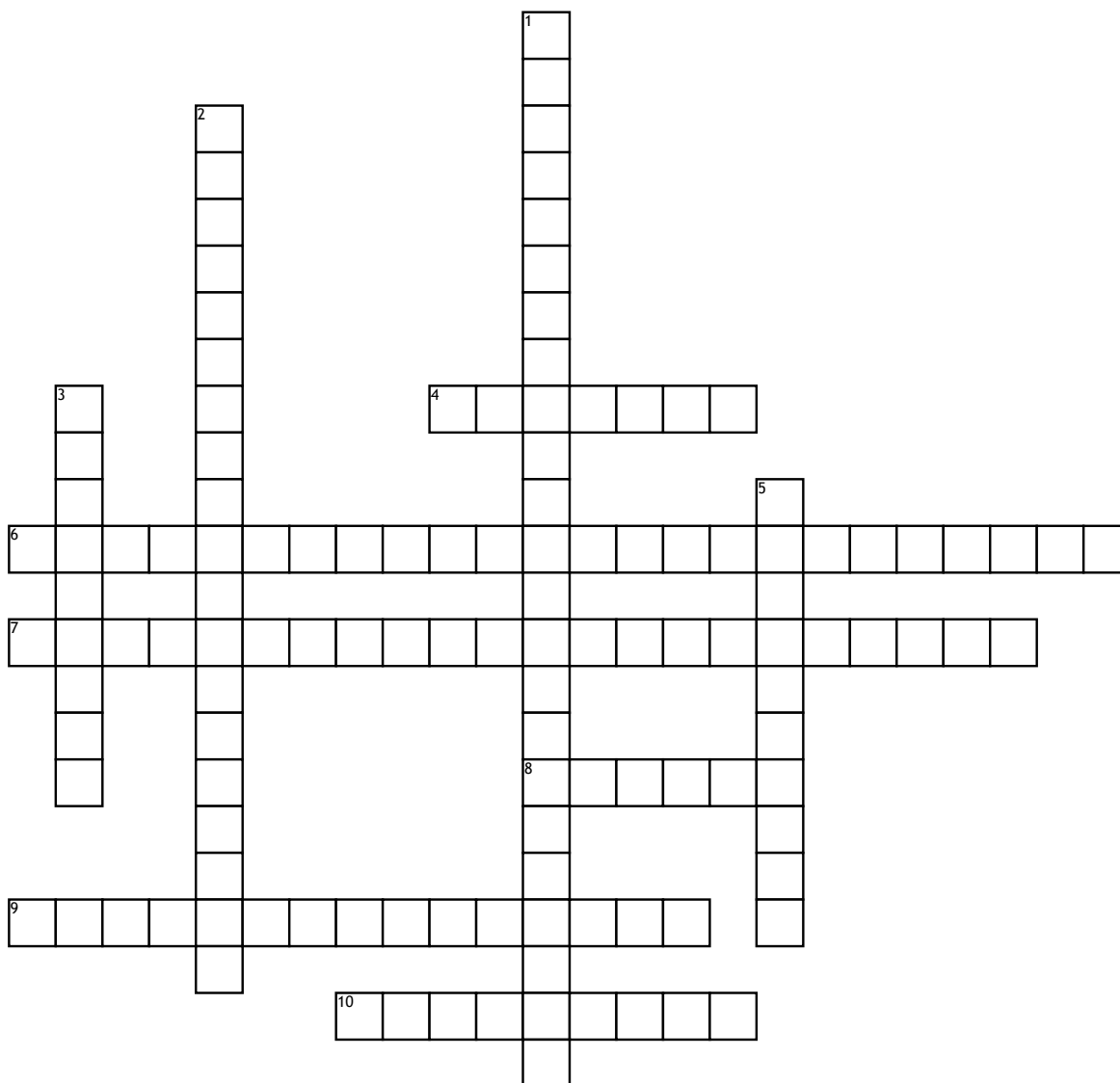


# Chemistry Assignment Pg.165 Section 1



## Across

4. a discrete packet of energy or matter.
6. Energy having both the form of electromagnetic waves and the form of a stream of photons and traveling at the speed of light in a vacuum.
7. frequencies of electromagnetic radiation emitted due to an atom or molecule making a transition from a high energy state to a lower energy state.
8. a particle of electromagnetic radiation with no mass that carries a quantum of energy.
9. Planck's constant is the proportionality constant relating a photon's energy to its frequency.

10. is the number of times a point on a wave passes a fixed reference point in one second.

## Down

1. the entire range of wavelengths or frequencies of electromagnetic radiation extending from gamma rays to the longest radio waves and including visible light.
2. When a surface is exposed to sufficiently energetic electromagnetic energy, light will be absorbed and electrons will be emitted.
3. the maximum extent of a vibration or oscillation, measured from the position of equilibrium.
5. a property of a wave that is the distance between identical points between two successive waves.