

# VOCABULARY

Chemistry- Mr. Hunter

## Week 5

## Chapter 5

1. **Energy Level:** the specific energies an electron in an atom or other system can have.
2. **Quantum:** the amount of energy needed to move an electron from one energy level to another
3. **Atomic Orbital:** a mathematical expression describing the probability of finding an electron at various locations
4. **Electron Configurations:** the arrangement of electrons of an atom in its ground state into various orbitals around the nuclei of atoms
5. **Pauli Exclusion Principle:** an atomic orbital may describe at most two electrons, each with opposite spin direction.
6. **Amplitude:** the height of a wave's crest.
7. **Wavelength:** the distance between adjacent crests of a wave
8. **Frequency:** the number of wave cycles that pass a given point per unit of time.
9. **Electromagnetic Radiation:** energy waves made up of radio, microwaves, infrared, visible light, ultraviolet, x-rays, and gamma rays.
10. **Spectrum:** wavelengths of visible light that are separated when a beam of light passes through a prism
11. **Ground State:** the lowest possible energy of an atom
12. **Photons:** a quantum of light