**CP Chemistry Test Plan**

**Unit 2: Atomic Structure, Periodic Table, Electronic Structure, and Quantum Numbers**

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| **Key Learning** | **CP Standard/Outcomes** | | **Importance** |
|  | Atomic structure and atomic theory | |  |
|  | Periodic trends | |  |
| **Essential Vocabulary:**   * Atom * Subatomic particles- protons, electrons, and neutrons * Nucleus and electron cloud * Atomic number * Isotopes * Mass number * Atomic mass (weight) * Groups and periods * Metals, nonmetals, and metalloids | | * Electron configuration * Electron shell and subshells * Aufbau principle * Hund’s rule * Valence electrons * Isoelectronic * Ground and excited states * Diamagnetism and Paramagnetism * Periodic Trends * Atomic radius * Ionization energy (1st, 2nd, 3rd) * Effective nuclear charge * Shielding * Reactivity * Ions * Cation and anion | |