**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
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