

Chemistry 40S – Unit Check up – The Atomic Structure - Beside each write:

**yes/no/will understand when I study/need clarification**

**Light –**

- Are you able to describe light in terms of electromagnetic energy?
- Describe the electromagnetic spectrum
- Describe the relationship between frequency, wavelength and energy of light
- Describe a line and continuous spectra

**Atomic Model –**

- Historical figures that led to the development of the quantum model?  
Bohr, Rutherford, Planck, Heisenberg, Schrodinger, Einstein, de Broglie

**Quantum model –**

- Know what orbitals, sublevels and energy levels are
- Know the types of orbitals
- # of electrons in the orbitals
- Shape of the orbitals
- What orbitals mean

**Electron Configuration**

- Regular - writing configurations
- Short hand form - writing configurations
- Ionic – writing configurations
- Exceptions to the rule – Cr and Cu & writing configurations
- Valence Electrons – Finding the number of valence electrons

**Trends** and know why

- Electronegativity
- Atomic Radii (Ionic vs non-ionic)
- Ionization energy

**Lewis dot structures**

- Draw – and bond

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