**Atomic Theory Formula Sheet:**

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| **Speed of Light:** | λ – Wavelength Frequency Energy |
| **Energy of a Photon:** |  |
| **The Photoelectric Effect:** | **Kinetic Energy:**  **Maximum Wavelength Needed to Free an Electron:** |
| **Wavenumber:** (cm-1 or m-1) |  |
| **De Broglie Wavelength:** |  |
| **Photon Momentum:** |  |
| **Bohr Model of H atom:** | **Photon Energy:** |
| **Heisenberg’s Uncertainty Principle:** |  |
| **Useful Data:** | |  |  |  | | --- | --- | --- | | Subatomic Particle: | Rest Mass: | Atomic Mass Unit: | | Electron |  | 0.000549 amu | | Proton |  | 1.007276 amu | | Neutron |  | 1.008665 amu | |