

**Section 5.1: Models of the Atom**

- How many sublevels are in the following principal energy levels? Which sublevels?
  - $n = 1$  **One - s**
  - $n = 2$  **Two - s, p**
  - $n = 3$  **Three - s, p, d**
  - $n = 4$  **Four - s, p, d, f**
  - $n = 5$  **Four - s, p, d, f**
  - $n = 6$  **Three - s, p, d**
  - $n = 7$  **Two - s, p**
- How many orbitals are in the following sublevels?
  - 1s sublevel **One**
  - 2p sublevel **Three**
  - 3d sublevel **Five**
  - 4f sublevel **Seven**
  - 5s sublevel **One**
  - 6p sublevel **Three**
- How many electrons can each of the following sublevels hold (maximum)?
  - s **Two**
  - p **Six**
  - d **Ten**
  - f **Fourteen**
- What is the shape of an s sublevel orbital? **Sphere**
- What is the shape of a p sublevel orbital? **Dumbbell**
- What was the problem with Rutherford's planetary model of the atom? **It could not explain chemical properties**
- Bohr proposed that electrons were found in specific circular paths called **orbits**
- What happens to the distance between energy levels as you increase in energy? **It decreases.**
- What does "electron cloud" mean? **A region of space with the highest probability, or likelihood, of finding an electron. Not an exact path.**
- How do electrons move from energy level to energy level? **Gain or lose energy**

**Section 5.2: Electron Arrangement in Atoms**

- Electrons arrange themselves around the nucleus in order to make the most **stable** arrangement.
- What are the three rules for writing electron configurations? Give the definition of each.
  - Aufbau's Principle** – electrons occupy the lowest energy levels first
  - Pauli Exclusion Principle** – electrons in the same orbital have opposite spin
  - Hund's Rule** – electrons enter orbitals individually before pairing up

# Electrons In Atoms Chapter 5 Answer Key

**SA Dillow**



## **Electrons In Atoms Chapter 5 Answer Key:**

## Unveiling the Magic of Words: A Overview of "**Electrons In Atoms Chapter 5 Answer Key**"

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