

## Atoms Study Guide Questions and Answers

1. What is an atom?
  - ▶ An atom is the **basic building block of matter**.
2. What is the size of an atom?
  - ▶ Atoms are **EXTREMELY small**. One atom is only one **ten-billionth** of a meter wide!
3. What three subatomic particles make up an atom?
  - ▶ There are three subatomic particles:
    - ▶ Proton ( $p^+$ )
    - ▶ Neutron ( $n^0$ )
    - ▶ Electron ( $e^-$ )

4. Where are protons, electrons, and neutrons located in an atom?
  - ▶ **Subatomic** particles are the particles found **within an atom**.
5. What is the mass of protons, electrons, and neutrons?
  - ▶ A **PROTON AND NEUTRON** has a mass of **1 atomic mass unit (amu)**.
  - ▶ an **ELECTON** is SO small, it is insignificant.
6. Where is most of the mass found in an atom?
  - ▶ in the **nucleus** of an atom

# Atoms Study Guide Answers

**Arshad Iqbal**



## Atoms Study Guide Answers:

**Organic Chemistry, 5e Student Study Guide and Solutions Manual** David R. Klein, Laurie S. Starkey, 2025-03-18

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