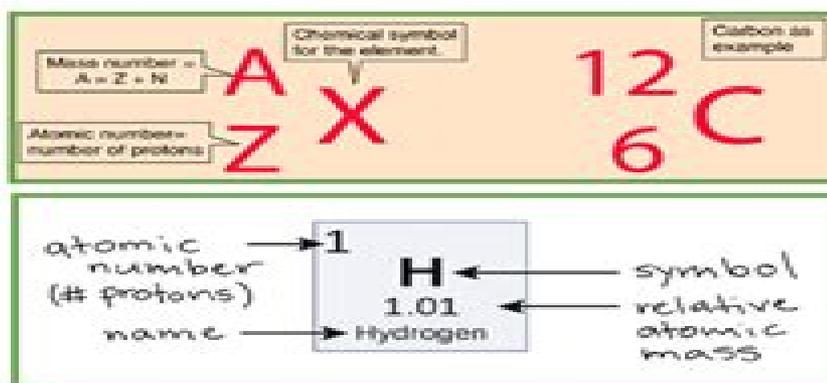


Chapter 1

You should be able to:

- Identify the key steps in the Scientific Method.
 - Step 1: Make observations.
 - Step 2: Formulate a hypothesis.
 - Step 3: Test the hypothesis through experimentation.
 - Step 4: Accept or modify the hypothesis. (develop a model)
 - Step 5: Develop into a law and/or a theory. (conduct further experiments)
- Explain the difference between an atom and an element.
 - **Atom:** is the **smallest component of an element**, containing neutrons, protons and electrons, and **makes up everything around us**.
 - **Element:** is a substance in which all of the atoms have the same atomic (proton) number. It is also defined as a substance which cannot be broken down by chemical means
- Describe the subatomic particles (protons, neutrons and electrons) and their location in the nuclear model of the atom.
 - **Electron:** A **negatively** charged subatomic particle **found outside** the nucleus of all atoms.
 - **Neutrons:** An **electrically neutral** with a mass & diameter slightly greater than that of a proton **located in the nucleus**
 - **Proton:** A **positively** charged particle **in the nucleus** of an atom.
- Identify an element by its atomic number and chemical symbol



- Write the full atomic symbol for any neutral atom or ion.

Chemistry 101 Study Guide

Huangqi Zhang



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