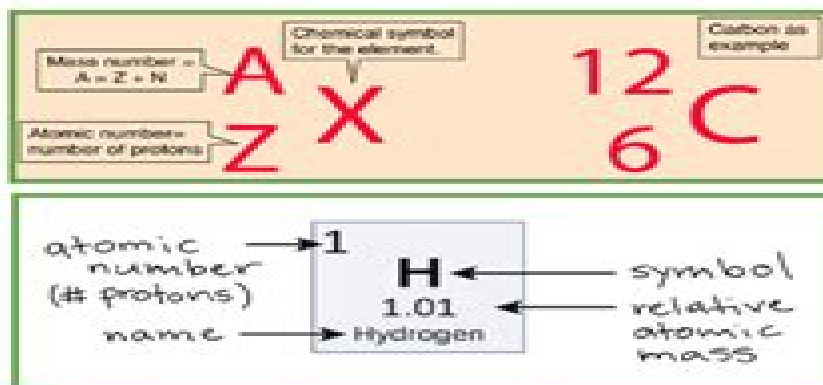


Chapter 1

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.

Best Chem 101 Study Guide

Scott C. Dulebohn



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