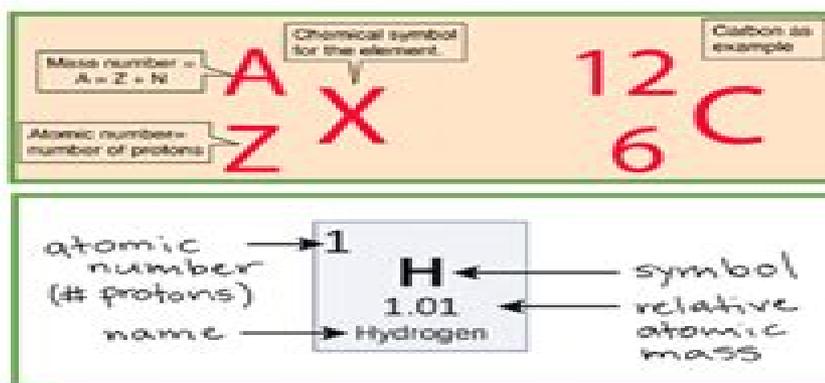


Chapter 1

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

Raffaella Di Napoli



Chemistry 101 Study Guide:

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Chemistry 101 Study Guide**

In a world inundated with screens and the cacophony of instant communication, the profound energy and mental resonance of verbal beauty usually fade in to obscurity, eclipsed by the constant assault of noise and distractions. Yet, located within the lyrical pages of **Chemistry 101 Study Guide**, a captivating work of fictional elegance that pulses with natural feelings, lies an unforgettable trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that mesmerizing opus courses readers on an emotional odyssey, delicately revealing the latent possible and profound influence stuck within the intricate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is central themes, dissect its captivating writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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