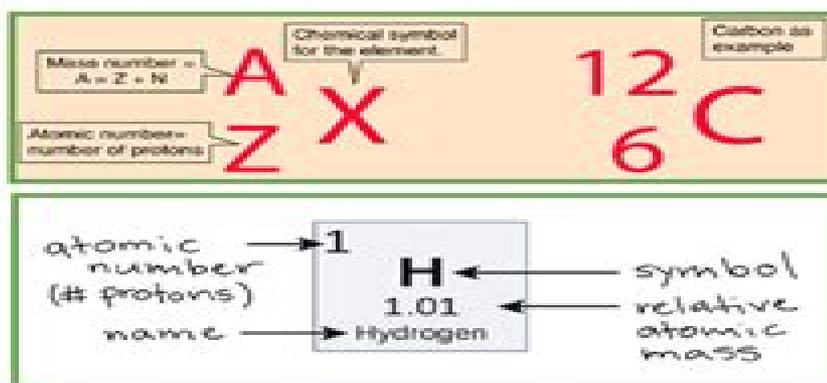


Chapter 1

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

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intelligence It's about amplifying existing advantages through strategic automation The book teaches you to identify unfair advantages whether life experience professional network or availability during odd hours and systematically convert them into income generating systems working while you sleep parent travel or pursue passions The comprehensive prompt library eliminates the learning curve allowing immediate implementation Action checklists ensure you're not just reading but doing Real world examples show both spectacular wins and cautionary tales preparing you for every scenario Join thousands discovering the AI gold rush isn't just for Silicon Valley insiders Your demographic isn't a limitation it's your secret weapon in the 72 billion AI economy Stop watching Start building Your automated income stream awaits

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Review Notes and Study Guide to the Romantic Poets Grover Cronin, 1964

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