

Build an Atom Virtual Lab

3 pages + 6-page Answer Key

Chemistry

Physical Science

BUILD AN ATOM VIRTUAL LAB

Introduction:

In this lab you will understand the structure of atoms, including protons, neutrons, and electrons, and how these particles determine the identity and properties of elements.

Materials:

Virtual Build an Atom Lab (https://phet.colorado.edu/en/simulations/build-an-atom)

Procedure (Part 1)

1. Access the Lab: Enter type in the search bar.
2. Build at least 8 different atoms by adjusting the number of protons, neutrons, and electrons. Record the atomic number, mass number, and charge of each atom in the table below.
3. Observe the effect of each particle on the atom's identity and properties.

Element	Symbol	Protons	Neutrons	Electrons	Charge

Atoms



UNDER CONSTRUCTION

When building an atom, write the information:

Atomic Number (Z) = Number of Protons

Mass Number (A) = Number of Protons + Number of Neutrons

Charge = Number of Protons - Number of Electrons

Example: 11 protons, 11 electrons, 12 neutrons

Atomic Number (Z) = 11

Mass Number (A) = 23

Charge = 0

Symbol: Na

Element Name: Sodium

Isotope Name: Sodium-23

Chemical Formula: Na

Chemical Name: Sodium

Chemical Symbol: Na

Chemical Formula: Na

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