

Conceptual Physics
Chapter 17: The Atomic Nature of Matter
Lab 17.2: Building an Atom (PHET simulation)



PART I: ATOM SCREEN

- Go to the website: phet.colorado.edu. Click on HTML5 simulations on top right of screen and choose the Build an Atom simulation (<http://phet.colorado.edu/en/simulation/build-an-atom>)
- Explore the Build an Atom simulation with your group. As you explore, talk about what you find. List two things your group observed in the simulation.
 -
 -
- Click on the + sign for each of the boxes (element name, net charge and mass number) to view changes as you change the number of particles in the atom.
- What particle(s) are found in the center of the atom? _____
- Play until you discover which **p**article(s) determine(s) the name of the **e**lement you build. _____
- What is the name of the following atoms?
 - An atom with 3 protons and 4 neutrons: _____
 - An atom with 2 protons and 4 neutrons: _____
 - An atom with 4 protons and 4 neutrons: _____
- Play with the simulation to discover which particles affect the **charge** of an atom or ion. _____
- Fill in the blanks below to show your results:
 - Neutral atoms have _____ the same number of _____ protons and electrons.
 - Positive ions have _____ protons than electrons.
 - Negative ions have _____ protons than electrons.
- Develop a relationship (in the form of a single sentence or equation) that can predict the charge based on the number and types of particle. _____
- Play with the simulation to discover what affects the **mass** number of your atom or ion. _____
 - What is a rule for determining the mass number of an atom or ion?
- Practice applying your understanding by playing 1st and 2nd levels on the game screen.

Conceptual Physics Chapter 17 Answers

Ying-Ying Zheng



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