

Building An Atom

PART I: ATOM SCREEN

1. 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>)
2. Explore the Build an Atom 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.
3. What particle(s) are found in the center of the atom? _____
4. Play with the simulation to discover which **particle(s)** determine(s) the name of the element you build? _____
5. What is the name of the following atoms?
 - a. An atom with 3 protons and 4 neutrons: _____
 - b. An atom with 2 protons and 4 neutrons: _____
 - c. An atom with 4 protons and 4 neutrons: _____
6. Play with the simulation to discover which particles affect the charge of an atom or ion. _____
7. Fill in the blanks with words or phrases to make a coherent sentence:
 - a. Adding protons _____ so a proton must have a charge of _____.
 - b. Adding neutrons _____ so a neutron must have a charge of _____.
 - c. Adding electrons _____ so an electron must have a charge of _____.
 - d. What could be a rule (in the form of a single sentence or equation) to determine the **charge** of an atom?
 - i. To find the charge of an atom you _____.
8. Play with the simulation to discover which **particle(s)** affects the mass number of your atom or ion. _____
 - a. What could be a rule for determining the mass number of an atom?
 - i. To find the mass number of an atom you _____.
9. Test your knowledge by playing the first and second game.

PART II: SYMBOL SCREEN

10. Using the Symbol readout box, figure out and take notes on which particles affect each component of the atomic symbol and how the value of the numbers is determined.



11. Practice applying your understanding by playing the 3rd and 4th game levels.

Student Directions Build An Atom Activity Answers

TD Snyder



Student Directions Build An Atom Activity Answers:

Decoding **Student Directions Build An Atom Activity Answers**: Revealing the Captivating Potential of Verbal Expression

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