

## ANSWER KEY: BUILD AN ATOM

### PART I: ATOM SCREEN

Build an Atom simulation (<http://phet.colorado.edu/en/simulation/build-an-atom>)

1. Explore the *Build an Atom* simulation with your group. As you explore, talk about what you find.
2.
  - a) List two things your group observed in the simulation.  
Responses will vary, but here is what you should see....
    - Adding protons changes the identity of the atom - adding one moves from right to left on the Periodic Table.
    - You can get the atom to be stable/unstable by adjusting the number of neutrons
    - Adding electrons will change it from a +ion to neutral atom, to -ion depending on how many electrons you add
    - Adding electrons - you can only add 2 to the first orbital and 8 to the second
  - b) What particle(s) are found in the center of the atom?  
Protons and neutrons
3. Play until you discover which **particle(s)** determine(s) the name of the **element** you build. What did you discover?  
Protons - adding them moves from left to right on the Periodic Table
4. What is the **name** of the following atoms?
  - a) An atom with 3 protons and 4 neutrons: **Lithium**
  - b) An atom with 2 protons and 4 neutrons: **Helium**
  - c) An atom with 4 protons and 4 neutrons: **Beryllium**
5. Play with the simulation to discover which particles affect the **charge** of an atom or ion.
  - a) Fill in the blanks below to show your results:
 

Neutral atoms have the same number of protons and electrons.

Positive ions have more protons than electrons.

Negative ions have fewer protons than electrons.
  - b) 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.  
The charge of an atom is determined by the ratio of protons to electrons.

# Answers For Build An Atom Phet

**Julia Schneider**



## **Answers For Build An Atom Phet:**

## Unveiling the Magic of Words: A Report on "**Answers For Build An Atom Phet**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Answers For Build An Atom Phet**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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