

Atoms PhET Lab

Introduction: Atoms are the smallest things that retain the properties of matter we can observe. Atoms are made of three **subatomic** particles; protons, neutrons, and electrons.

- Protons have a mass of _____ amu and a charge of _____.
- Neutrons have a mass of _____ amu and a charge of _____.
- Electrons have a mass of nearly _____ amu and a charge of _____.

In this simulation, you will build atoms, subatomic particle by subatomic particle and observe the effect of adding more of each particle. When the subatomic particles in an atom change, an **ion**, **isotope** or different element will be created.



Build An Atom

Procedure 1: Play with the Sims → Chemistry → Build An Atom Notepad

Begin by playing with the simulation for a while. Become familiar with the interface. What happens when you add protons, neutrons, or electrons? To start over, click Reset All.



Show the **symbol**, **atomic mass**, and **charge** by clicking on the Info.

Analysis Questions

1. Ions are atoms of the same element with different numbers of _____.
2. Isotopes are atoms of the same element with different numbers of _____.
3. Adding or removing protons from an atom does what to the atom? _____
4. An atom with the same number of protons and electrons has a charge of _____.
5. Adding two electrons to a neutral atom produces an ion with a charge of _____.
6. An atom with six protons and five electrons would have a charge of _____.
7. What atom is created with nine protons, nine neutrons, and nine electrons?
8. Show the full symbol for the above atom in the box at the right
9. What does the upper-left number in the symbol represent? _____
10. What does the lower-left number in the symbol represent? _____



Game The Game

Click the tab at the top that says "Game"

Play each level until you make a perfect score. Call me over when you complete a level with a perfect score, and I will check it off.

Level 1 _____

Level 2 _____

Level 3 _____

Level 4 _____

Answers For Build An Atom Phet Lab

RJ Alexander



Answers For Build An Atom Phet Lab:

Embark on a breathtaking journey through nature and adventure with Explore with is mesmerizing ebook, **Answers For Build An Atom Phet Lab** . This immersive experience, available for download in a PDF format (*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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