

Name _____

PhET: Build an Atom Activity Guide

A lesson on Atoms, Atomic Structure, Ions, and Isotopes ... but it's way more fun than it sounds!

Background: View these online videos ... [What is an Atom?](#) / [Atomic Number and Mass Number](#) / [Atomic Mass Units](#)

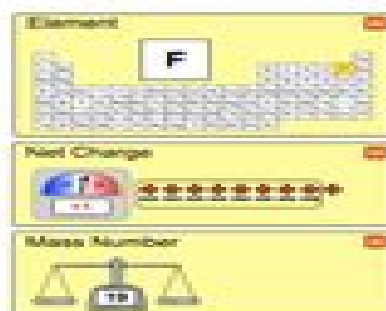
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Part One: The Atom

1. Go to PhET: Build an Atom and Select "Atom"



Atom



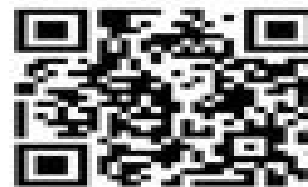
Show
[x] Element Name
[x] Neutralization
[x] Stable/Unstable



2. Expand the Net Charge and Mass Number boxes

3. Check Stable/Unstable

4. Add the correct number of Protons, Neutrons, and Electrons to build a Lithium Atom that is both Stable and Neutral. Draw the orbit model.



PhET: Build an Atom
phet.colorado.edu/en/simulation/build-an-atom



How many?
3 Protons
3 or 4 Neutrons
3 Electrons



Element Name Nitrogen

*Mass Number 6 or 7

Net Charge 0

*Lithium has two stable isotopes

Symbols for drawing:



Phet Build An Atom Answers

Marcel A. Müller



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