PhET INTERACTIVE SIMULATIONS
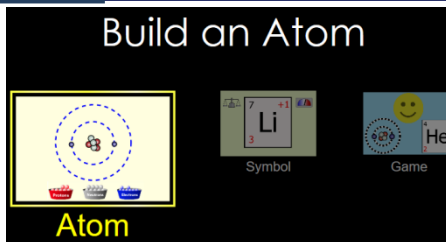
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Build an Atom 1.1.2 - PhET
https://phet.colorado.edu/.../build-an-atom/...   University of Colorado Boulder ▾
m. **Build an Atom** Atom Symbol Game.
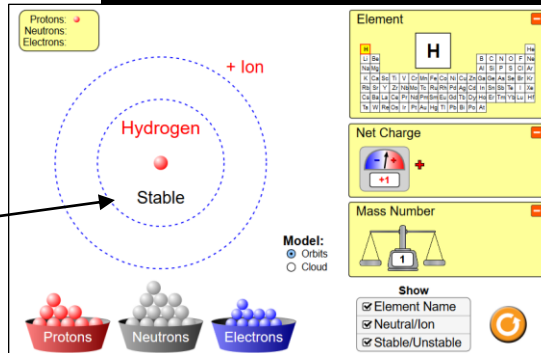
Build an Atom

Symbol   Game

Atom

Part 1 Directions: Choose "Atom"

Open tools, click boxes as shown →

To create atoms, drag protons, neutrons and electrons onto and off of the "X".

1A. Make 3 stable atoms (not H!) Draw the atoms below

+ Ion

Hydrogen

Stable

Model:
○ Orbits
○ Cloud

Show
☑ Element Name
☑ Neutral/Ion
☑ Stable/Unstable

Protons   Neutrons   Electrons

1B. Make 3 unstable atoms (not H!). Draw atoms below:

1C. You have just made unstable atoms. How can you make them stable?

1D. What did you change to get the numbers in the box to change?

Element

Net charge (more than one way!)

Mass Number (more than one way!)

https://phet.colorado.edu/sims/html/build-an-atom/latest/build-an-atom_en.html

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Part 2:

Build an Atom

Atom | Symbol | Game

Directions: 2A   2B click, open

2C. Make 4 stable atoms (not H!) Fill in the 4 boxes for each stable atom:

Symbol	Symbol	Symbol	Symbol

2D. Make 4 unstable atoms (not H!). Draw atoms below:

Symbol	Symbol	Symbol	Symbol

2E. Can you make 3 different stable atoms that are the same element with a different mass? How?

2F. Can you make 3 different stable atoms that are the same element with a different charge? How?

Part 3

Build an Atom

Atom | Symbol | Game

Choose Your Game!

3A   3B   3C

Find the element:

What is the mass number? 0

Score: _____ 🕐 _____ | Score: _____ 🕐 _____ | Score: _____ 🕐 _____ | Score: _____ 🕐 _____

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