

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.

Atom Journey Questions Answer Key

George Graybill



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Invisible Residents Ivan T. Sanderson, 2005 This book is a groundbreaking contribution to the study of the UFO enigma originally published over 30 years ago In this book Sanderson a renowned zoologist with a keen interest in the paranormal puts forward the curious theory that a oeOINTS Other Intelligences live under the Eartha TM s oceans This underwater parallel civilization may be twice as old as Homo sapiens he proposes and may have a oedeveloped what we call space flight Sanderson postulates that the OINTS are behind many UFO sightings as well as the mysterious disappearances of aircraft and ships in the Bermuda Triangle What better place to have an impenetrable base than deep within the oceans of the planet Yet if UFOs or at least some of them are coming from beneath our oceans or lakes does it necessarily mean that there is another civilization besides our own that is responsible In fact could it be that since WWII a number of underwater UFO bases have been constructed by the very human governments of our planet Whatever their source Sanderson offers here an exhaustive study of USOs Unidentified Submarine Objects observed in nearly every part of the world He presents many well documented and exciting case studies of these unusual sightings more

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Science ,1887
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A Guide for Using the Red Pony in the Classroom Mari Lu Robbins,1994

English Mechanic and Mirror

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