

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
3. b) What particle(s) are found in the center of the atom?
Protons and neutrons
4. 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. 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. 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

Atom Journey Questions Answer Key:

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 several Other Intelligences live under the Earth's oceans. This underwater parallel civilization may be twice as old as Homo sapiens he proposes and may have a developed 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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Graybill,2017-05-18 This is the chapter slice Your Travel Footprint Gr 5 8 from the full lesson plan Reducing Your Own Carbon Footprint Engage students in global climate change by personalizing their own carbon footprint Our resource introduces students to the effects of global climate change and its human related causes Start with a detailed look at the greenhouse effect Identify all the ways a kitchen uses energy Break down the steps involved with farm to table and how each step adds to the carbon footprint Calculate your travel footprint and learn ways to help reduce it Understand that your carbon footprint doesn't lessen after throwing things out Look at the bigger picture and calculate how your own carbon footprint fits with the community Help reduce the carbon footprint by brainstorming ways to make environmentally friendly rules part of the social contract Written to Bloom's Taxonomy and STEAM initiatives additional graphic organizers carbon footprint calculator crossword word search comprehension quiz and answer key are also included

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