

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.

Build An Atom Worksheet Answers

Yicheng Fang



Build An Atom Worksheet Answers:

Academic Language/Literacy Strategies for Adolescents Debra L. Cook Hirai,Irene Borrego,Emilio Garza,Carl Kloock,2013-02-01 Fast paced practical and innovative this text for pre service and in service teachers features clear easily accessible lessons and professional development activities to improve the delivery of academic language literacy education across the content areas in junior middle school and high school classrooms Numerous hands on tools and techniques demonstrate the effectiveness of content area instruction for students in a wide variety of school settings particularly English language learners struggling readers and other special populations of students Based on a strong professional development model the authors have been instrumental in designing Academic Language Literacy Strategies for Adolescents addresses motivation attributes of academic language vocabulary theory and practice reading skills development grammar and writing A wealth of charts graphs and lesson plans give clear examples of academic language literacy strategies in action The appendices a key component of the practical applications developed in the text include a glossary exemplary lessons that address key content areas and a Grammar Handbook In this era of increased accountability coupled with rapid demographic change and challenges to traditional curricula and pedagogical methods educators will find this book to be a great resource

The Science Teacher ,2001 *Popular Mechanics* ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

Illinois Chemistry Teacher ,2001 **Biology/science Materials** Carolina Biological Supply Company,1991

Science Scope ,1999 *Addison-Wesley Science Insights* ,1996 Science Insights ,1999 **Data Sources** ,2000

Building an Atom Marcella Slobodzian,2002

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