



Name: Jack MonoLucas

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Student Exploration: Element Builder

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: atom, atomic number, electron, electron dot diagram, element, energy level, ion, isotope, mass number, neutron, nucleus, periodic table, proton, radioactive, valence electrons

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What are some of the different substances that make up a pizza?
2. What substances make up water?
3. What substances make up an iron pot?

Cheese, dough, and sauce

Hydrogen and oxygen

Iron

Elements are pure substances that are made up of one kind of **atom**. Pizza is not an element because it is a mixture of many substances. Water is a pure substance, but it contains two kinds of atom: oxygen and hydrogen. Iron is an element because it is composed of one kind of atom.

Gizmo Warm-up

Atoms are tiny particles of matter that are made up of three particles: **protons**, **neutrons**, and **electrons**. The *Element Builder* Gizmo shows an atom with a single proton. The proton is located in the center of the atom, called the **nucleus**.

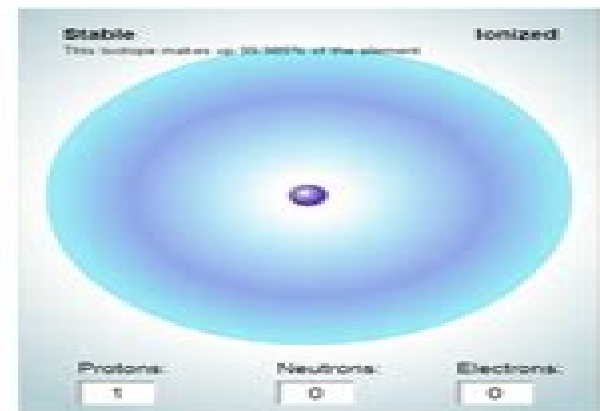
1. Use the arrow buttons () to add protons, neutrons, and electrons to the atom. Press **Play** ().

- A. Which particles are located in the nucleus?
- B. Which particles orbit around the nucleus?
- C. Turn on **Show element name**. What causes the element name to change?

protons and neutrons

electrons

the amount of protons



Answers Gizmo Element Builder

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Driver 1 & Chief United States. Bureau of Naval Personnel, 1951 *Driver 1 and Chief* United States. Bureau of Naval Personnel, 1951 **EBOOK: Business Research Methods** Boris Blumberg, Donald Cooper, Pamela Schindler, 2014-03-16

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Solar Energy Project United States. Department of Energy. Office of Conservation and Solar Applications, 1979 *Alternative Long-range Energy Strategies* United States. Congress. Senate. Select Committee on Small Business, 1977 *eBook: Business Research Methods 5e* Boris Blumberg, Claire MacRae, 2024-06-13

This book is a one-stop guide to all your research methods needs. It is tailored specifically towards business and management courses, and central to this edition is the balanced coverage of qualitative and quantitative methods to clearly and concisely lead students through the research process, whatever their project may be. Now in its much anticipated fifth edition, *Business Research Methods* has been revised and updated to reflect all the latest trends in research methodology. The integration of statistical issues, as well as coverage of web-based surveys, qualitative interviews, big data, and content analysis of social media, aims to support the current student experience. A Running Case Study charts the progression of two student research projects, one qualitative and one quantitative, and shows how the content of each chapter can be used to develop their projects. Thought-provoking questions are included to help students consider the issues and decisions involved, and how these might be applied to their own project. Deeper Insight into Research Methods boxes delve further into

particular research issues offering a detailed description to increase understanding of these areas whilst Real Life examples put research methods into context by showing how they have been applied in real world situations New pedagogy features include Research in Practice boxes provide an insight into situations and research decisions that students may encounter in real life projects They contain hints tips and sometimes questions to help think through a project Theory Explained highlights key theories and demonstrates how these can be applied in practical research examples Statistics in Action provides practical alternatives to qualitative research methods and gives examples of how statistical data can be presented analyzed and interpreted to improve students data insights skills The Online Learning Centre contains a vast amount of extra resources to support lecturers and student including power points instructor manuals and a question bank New to this edition are short case studies with teaching notes covering current topics and key theories and worked examples and videos with associated questions for further practical exercises and real world examples Boris F Blumberg is Senior Lecturer and Executive Director of UMIO the postgraduate unit at the Maastricht University School of Business and Economics the Netherlands Boris has supervised hundreds of dissertations and teaches courses in strategic management entrepreneurship and innovation His research focuses mainly on entrepreneurship networks and methodology Claire MacRae is Senior Lecturer in Public Policy at the Centre for Public Policy University of Glasgow Claire has taught courses on research methods for undergraduate masters and Professional Doctorate students Her research focuses mainly on policymaking risk and resilience and the impact of policy design and implementation on society

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