



Name:

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Date:

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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?

Substances that make up a pizza include cheese, wheat, oil, and tomatoes.

Water is made up of hydrogen and oxygen.

An iron pot is made of 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 addition of a proton.



Element Builder Guide

William Galt Raymond



Element Builder Guide:

The Unofficial LEGO Builder's Guide, 2nd Edition Allan Bedford, 2012-11-12 What's the difference between a tile and a plate? Why isn't it a good idea to stack bricks in columns to make a wall? How do you build a LEGO mosaic or build at different scales? You'll find the answers to these and other questions in *The Unofficial LEGO Builder's Guide*. Now in full color, this brand new edition of a well-loved favorite will show you how to construct models that won't fall apart. Choose the right pieces and substitute when needed. Build to micro, jumbo, and miniland scale. Make playable board games out of LEGO pieces. Create photo mosaics and curved sculptures. Build a miniature space shuttle, a minifig-sized train station, and more. Of course, the real fun of LEGO building lies in creating your own models, from choosing the subject to clicking that final brick into place. Learn how in *The Unofficial LEGO Builder's Guide*. Includes the Brickopedia, a visual dictionary of nearly 300 of the most commonly used LEGO elements.

The Complete LEGO Builder's Guide: Tips and Techniques to Elevate Your Building Skills Deena Adkins, 2025-04-04 Discover the endless possibilities of LEGO building with this essential guide designed to inspire and educate enthusiasts of all ages. Whether you are a novice or a seasoned builder, this book provides comprehensive insights and practical advice to elevate your LEGO creations to new heights. Unleash your creativity as you explore a variety of techniques that transform simple bricks into stunning masterpieces. The book covers an array of topics that cater to builders at every skill level. Delve into the fundamentals of LEGO building, from understanding different brick types and their uses to mastering advanced building techniques. Learn how to design and construct intricate models, landscapes, and even functional machines. The techniques are illustrated with clear, step-by-step instructions and accompanied by vibrant images that bring each concept to life. Discover innovative ways to use color, texture, and space to enhance your builds and gain confidence in tackling complex projects. Why invest your time in this book? *The Complete LEGO Builder's Guide* stands out as a valuable resource for anyone passionate about LEGO. Unlike other guides that merely scratch the surface, this book offers an in-depth exploration of building techniques combined with practical tips that can be applied immediately.

A Graphic Guide to Industrialized Building Elements Raymond Sluzas, Anne Ryan, 1977

BIM Handbook Rafael Sacks, Charles Eastman, Ghang Lee, Paul Teicholz, 2018-08-14 Discover BIM: A better way to build better buildings. Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. *The BIM Handbook*, Third Edition, provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include information on the ways in which professionals should use BIM to gain maximum value. New topics such as collaborative working, national and major construction clients, BIM standards, and guides. A

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The Facility Management Handbook David G. COTTS PE, CFM, Kathy O. ROPER CFM, LEED AP, Richard P. PAYANT CFM, CPE, 2009-07-22 Based on best practices and proven research The Facility Management Handbook has long been the go to resource for professionals in the field Extensively updated for the realities of today s workplace the third edition provides readers with the tools and guidance they need to wipe out inefficiency and create a productive facility that integrates people place and process Covering a broad range of topics from space planning and maintenance to benchmarking and outsourcing readers will gain practical insight into how they can design construct and maintain facilities using sustainable practices provide a safe attractive work environment that supports productivity ensure that facility plans match organizational needs plan and control capital expenditures address critical security and emergency preparedness issues Complete with case studies and indispensable information on sustainability and post 9 11 security concerns this is still the ultimate resource for facility managers

The Elements of Euclid Euclides, Henry Law, 1881 [Scientific Canadian Mechanics' Magazine and Patent Office Record](#) Canada. Patent Office, 1929 [The Canadian Patent Office Record and Register of Copyrights and Trade Marks](#) , 1929 [Real Estate Record and Builders' Guide](#) , 1889 [The Elements of Electrical Engineering](#) Tyson Sewell, 1905 **Guides and Guards in Character-building** Charles Henry Payne, 1883 [Engineering Record, Building Record and Sanitary Engineer](#) Henry Coddington Meyer, Charles Frederick Wingate, 1912 **Elements of Machine Design**

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