

Name: Carmen Chadwick

Date: 11/16/11

Student Exploration: Element Builder

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.)

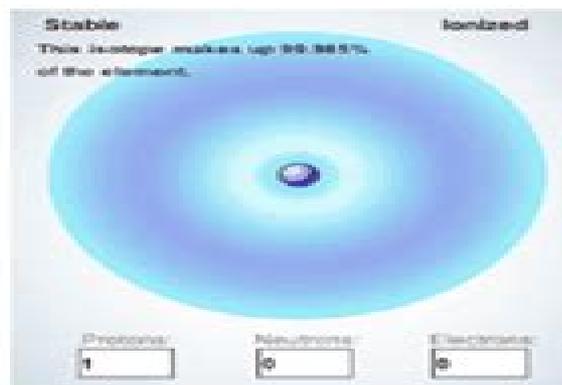
1. What are some of the different substances that make up a pizza? Cheese, dough, pepperoni, sauce, and sausage.
2. What substances make up water? Hydrogen and Oxygen
3. What substances make up an iron pot? Iron

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?
Protons and Neutrons.
 - B. Which particles orbit around the nucleus?
Electrons.



2. Turn on **Show element name**. What causes the element name to change? Protons.

Explore Learning Answer Key Element Builder

Raffaela Di Napoli



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Classroom Testing and Assessment for ALL Students Spencer J. Salend, 2009-11-10 A rare opportunity for the new generation of educators to learn alongside a well known and experienced educator to integrate all learning styles into assessments Principals should consider this for faculty book studies The presented techniques will no doubt raise standardized test scores while teachers continue to present real curriculum Janette Bowen Sixth Grade Teacher Junction City Middle School KS Give all students an equal chance to perform well on your classroom tests and assessments In today s diverse classrooms students of different socioeconomic linguistic and cultural backgrounds and ability levels share a common learning environment To meet each student s unique strengths and needs educators need flexible testing and assessment strategies that fulfill the requirements for standardized assessment and accountability in ways that don t put students at a disadvantage because of their differences Classroom Testing and Assessment for ALL Students helps both general and special education teachers meet and move beyond the challenges of NCLB and IDEA by using teacher made tests appropriate testing accommodations technology based testing and classroom based assessments that support the teaching and learning process so all students have the opportunity to succeed The book offers ways for teachers to better differentiate their testing and assessment strategies through Classroom and school based examples in each chapter Bulleted information outlining hands on research based strategies for teacher implementation Forms reproducibles stories vignettes reflection questions and checklists that guide educators in applying and tailoring the strategies to their classrooms and students Tips on using technology to help all students perform better Teachers know their students best This resource allows teachers to design tests and assessments to accommodate the various strengths and needs of all learners in their classroom

Human-Computer Interaction. HCI Applications and Services Julie A. Jacko, 2007-08-24 Here is the fourth of a four volume set that constitutes the refereed proceedings of the 12th International Conference on Human Computer Interaction HCII 2007 held in Beijing China jointly with eight other thematically similar conferences It covers business applications learning and entertainment health applications work and collaboration support web based and mobile applications as well as advanced design and development support *Exploring Autodesk Revit 2019 for Structure, 9th Edition* Prof. Sham Tickoo, 2018 Exploring Autodesk Revit 2019 for Structure is a comprehensive book that has been written to cater to the needs of the students and the professionals who are involved in the AEC profession This book enables the users to harness the power of BIM with Autodesk Revit 2019 for Structure for their specific use In this book the author emphasizes on physical modeling analytical modeling rebar modeling steel element cutting tools structural steel connections and quantity scheduling Also Revit 2019 for Structure book covers the description of various stages involved in analyzing the model in Robot Structural Analysis software This book is specially meant for professionals and students in structural engineering civil engineering and allied fields in the building industry In this book along with the main text the chapters have been punctuated

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