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Date: 18/03/22

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



Element Builder Gizmo Quiz Answers

S Marginson

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

Element Builder Gizmo Quiz Answers:

The book delves into Element Builder Gizmo Quiz Answers. Element Builder Gizmo Quiz Answers is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Element Builder Gizmo Quiz Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Element Builder Gizmo Quiz Answers
 - Chapter 2: Essential Elements of Element Builder Gizmo Quiz Answers
 - Chapter 3: Element Builder Gizmo Quiz Answers in Everyday Life
 - Chapter 4: Element Builder Gizmo Quiz Answers in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Element Builder Gizmo Quiz Answers. This chapter will explore what Element Builder Gizmo Quiz Answers is, why Element Builder Gizmo Quiz Answers is vital, and how to effectively learn about Element Builder Gizmo Quiz Answers.
3. In chapter 2, this book will delve into the foundational concepts of Element Builder Gizmo Quiz Answers. The second chapter will elucidate the essential principles that must be understood to grasp Element Builder Gizmo Quiz Answers in its entirety.
4. In chapter 3, the author will examine the practical applications of Element Builder Gizmo Quiz Answers in daily life. The third chapter will showcase real-world examples of how Element Builder Gizmo Quiz Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Element Builder Gizmo Quiz Answers in specific contexts. The fourth chapter will explore how Element Builder Gizmo Quiz Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Element Builder Gizmo Quiz Answers. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Element Builder Gizmo Quiz Answers.

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