

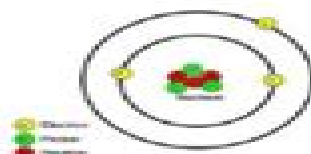
Atomic Structure – Study Guide

Grade 8 – Physical Science

Atom -- smallest particle of an element that has all the properties of that element.

3 main subatomic particles:

1. protons
2. neutrons
3. electrons



nucleus -- core of the atom, it is positively charged 99.9 % of the atoms mass is in the nucleus. Protons and neutrons are found in the **nucleus**.

1. Protons -- have a positive (+) charge. Found in the nucleus of the atom.

The **number of protons** determines what element an atom is.

Example: Carbon has 6 protons

Atomic Number = the **number of protons**, each element has its own unique number of protons.

2. Neutrons -- a neutral charge (no charge) found in the nucleus. These determine whether an element is radioactive.

Protons and neutrons are about *one atomic mass unit (amu)*. Electrons have a much smaller mass -- it takes almost 2000 electrons to equal 1 amu.

Atomic Mass = the total number of protons and neutrons.

Mass Number = Atomic Mass that is rounded.

To find just how many **neutrons** an atom has:

neutrons = atomic mass – atomic

Isotopes - atoms of the same element that have different number of neutrons.

Carbon-12

6 protons

6 neutrons

Carbon-14

6 protons

8 neutrons

NOTICE – the number of **protons DOES NOT** change if it is to be carbon -- only the number of neutrons.

3. Electrons - have a negative (-) charge. Found moving around the atom in a space called orbital's (shells).

Those electrons farthest away from the nucleus are called **valence electrons**, and are involved in the formation of chemical bonds.

In an uncharged atom the number of protons is equal to the number of electrons.

ion - when an atom gains or loses an *electron* (has a charge)

If an atom gains electrons = negative (-) charge

If an atom loses electrons = positive (+) charge

How to find:

protons = atomic

neutrons = atomic mass – atomic

electrons = atomic # – charge (if any)

Matter And Atomic Structure Study Guide Answers

Chao Zhang



Matter And Atomic Structure Study Guide Answers:

The book delves into Matter And Atomic Structure Study Guide Answers. Matter And Atomic Structure Study Guide Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Matter And Atomic Structure Study Guide Answers, encompassing both the fundamentals and more intricate discussions.

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

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some live solitary lives as single- celled organisms. 11. Complete the table about the two categories of ... READING Chapter 7.1 Life Is Cellular | PDF READING Chapter 7. 1 Life is Cellular worksheet. The Discovery of the Cell Seeing is believing, an old saying goes. It would be hard to find a better ... 7-1 Life Is Cellular Structures within a eukaryotic cell that perform important cellular functions are known as organelles. Cell biologists divide the eukaryotic cell into two major. 7.1 Life Is Cellular | PDF | Microscope 7.1 Life Is Cellular. Lesson Objectives State the cell theory. Describe how the different types of microscopes work. Distinguish between prokaryotes and ... Chapter 7-1 Life Is Cellular The discovery of the cell was possible due to the invention of the. 2. Who was the first person to see cells? 3. Why did he call them cells?