

# BASIC CHEMISTRY

## CHEMISTRY

- ✓ Medieval Latin "Alchimia"/ Arabic "Alkimya", the chemistry
- ✓ The study of the composition and structure of the changes in matter
- ✓ It is often called the central science because knowledge in this field is a prerequisite for all the other physical and biological sciences.

## HISTORICAL DEVELOPMENT OF THE ATOMIC STRUCTURE

### ATOM

- ✓ It is the smallest possible unit into which matter can be divided, while still maintaining its properties
- ✓ Building blocks of matter
- ✓ It has protons (+), neutrons (0), and electrons (-)

1. **Democritus** was a greek philosopher who first introduced the concept of atoms. He believed that matter is comprises of tiny indivisible particles known as atomos.
2. **Dalton's Atomic Theory**
  - a. All matter is made up of indivisible particles known as atoms.
  - b. All atoms of the same elements are alike.
  - c. Compounds are formed when atoms of different elements combine in certain proportions.
  - d. atoms are only rearranged but neither created nor destroyed in chemical reactions.
3. **Law of Definite Proportion** – a given compound always contains the same elements in exactly the same proportion by mass.

$H_2O$  - ratio of two hydrogen atom with one oxygen atom only. If it becomes ratio of two hydrogen atom with two oxygen atom, it is not already water.

4. **Law of Multiple Proportions** – when two elements can combine to form more than one type of compound, the masses of one element that combine with a fixed mass of the other elements are in a ratio of small whole numbers.



5. **Law of Conservation of Mass** states that matter can neither be created nor destroyed. Matter is just transformed.
6. The discovery of the different sub-atomic particles:
  - i. **J.J. Thompson** determined the charge to mass ratio of the electron using a cathode ray tube.

# Example Basic Chemistry Study Guide

**Richard O. Straub, Kathleen Stassen  
Berger**



## **Example Basic Chemistry Study Guide:**

## **Example Basic Chemistry Study Guide** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Example Basic Chemistry Study Guide**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Example Basic Chemistry Study Guide**

1. Understanding the eBook Example Basic Chemistry Study Guide
  - The Rise of Digital Reading Example Basic Chemistry Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Example Basic Chemistry Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Example Basic Chemistry Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Example Basic Chemistry Study Guide
  - Personalized Recommendations
  - Example Basic Chemistry Study Guide User Reviews and Ratings
  - Example Basic Chemistry Study Guide and Bestseller Lists

5. Accessing Example Basic Chemistry Study Guide Free and Paid eBooks
  - Example Basic Chemistry Study Guide Public Domain eBooks
  - Example Basic Chemistry Study Guide eBook Subscription Services
  - Example Basic Chemistry Study Guide Budget-Friendly Options
6. Navigating Example Basic Chemistry Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Example Basic Chemistry Study Guide Compatibility with Devices
  - Example Basic Chemistry Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Example Basic Chemistry Study Guide
  - Highlighting and Note-Taking Example Basic Chemistry Study Guide
  - Interactive Elements Example Basic Chemistry Study Guide
8. Staying Engaged with Example Basic Chemistry Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Example Basic Chemistry Study Guide
9. Balancing eBooks and Physical Books Example Basic Chemistry Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Example Basic Chemistry Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Example Basic Chemistry Study Guide
  - Setting Reading Goals Example Basic Chemistry Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Example Basic Chemistry Study Guide
  - Fact-Checking eBook Content of Example Basic Chemistry Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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