

# HOLT MODERN CHEMISTRY -- CHAPTER 1 REVIEW

*The following pages contain the bulk (but not all) of the information for the chapter 1 test. Focus on this content, but make sure to review class notes, activities, handouts, questions, etc. If you study this document and NOTHING else, you should at least be able to PASS the test. \*\*\*\*\* Test items will be recall, examples, and/or application of this content. \*\*\*\*\**

## OUTCOMES

- 1.1: Distinguish between types of research – basic, applied, and technological development. (F & PK)
- 1.2: Distinguish between the physical and chemical properties of matter. (F & PK)
- 1.2: Distinguish among homogeneous and heterogeneous mixtures, elements, and compounds. (F & PK)
- 1.3: List properties of metals and non-metals. (T & R)
- 2.3: Determine significant figures. (F & PK)

## 1.1: CHEMISTRY IS A PHYSICAL SCIENCE

- **Vocabulary**
  - **chemistry** -- the scientific study of the composition, structure, and properties of matter and the changes that matter undergoes
  - **chemical** -- any substance with a defined composition
- **Chapter Highlights**
  - Chemistry is the study of the composition, structure, and properties of matter and the changes that matter undergoes.
  - A chemical is any substance that has a definite composition or is used or produced in a chemical process.
  - Basic research is carried out for the sake of increasing knowledge. Applied research is carried out to solve practical problems. Technological development involves the use of existing knowledge to make life easier or more convenient.

## 1.2: MATTER AND ITS PROPERTIES

- **Vocabulary**
  - **matter** -- anything that has mass and takes up space
  - **mass** -- a measure of the amount of matter in an object
  - **element** -- a substance that cannot be separated or broken down into simpler substances by chemical means; all atoms of an element have the same atomic number
  - **atom** -- the smallest unit of an element that maintains the chemical properties of that element
  - **compound** -- a substance made up of atoms of two or more different elements joined by chemical bonds
  - **extensive property** -- a property that depends on the extent or size of a system
  - **intensive property** -- a property that does not depend on the amount of matter present, such as pressure, temperature, or density
  - **physical property** -- a characteristic of a substance that does not involve a chemical change, such as density, color, or hardness
  - **physical change** -- a change of matter from one form to another without a change in chemical properties
  - **change of state** -- the change of a substance from one physical state to another
  - **solid** -- the state of matter in which the volume and shape of a substance are fixed
  - **liquid** -- the state of matter that has a definite volume but not a definite shape
  - **gas** -- a form of matter that does not have a definite volume or shape
  - **plasma** -- in physical science, a state of matter that starts as a gas and then becomes ionized; it consists of freemoving ions and electrons and it takes on an electric charge
  - **chemical property** -- a property of matter that describes a substance's ability to participate in chemical reactions
  - **chemical change** -- a change that occurs when one or more substances change into entirely new substances with different properties
  - **chemical reaction** -- the process by which one or more substances change to produce one or more different substances
  - **reactant** -- a substance or molecule that participates in a chemical reaction
  - **product** -- a substance that forms in a chemical reaction
  - **mixture** -- a combination of two or more substances that are not chemically combined

# Holt Modern Chemistry Chapter 18 3 Notes

**Michal Rosen-Zvi**



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## **Table of Contents Holt Modern Chemistry Chapter 18 3 Notes**

1. Understanding the eBook Holt Modern Chemistry Chapter 18 3 Notes
  - The Rise of Digital Reading Holt Modern Chemistry Chapter 18 3 Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Modern Chemistry Chapter 18 3 Notes
  - 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 Holt Modern Chemistry Chapter 18 3 Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Modern Chemistry Chapter 18 3 Notes
  - Personalized Recommendations
  - Holt Modern Chemistry Chapter 18 3 Notes User Reviews and Ratings
  - Holt Modern Chemistry Chapter 18 3 Notes and Bestseller Lists
5. Accessing Holt Modern Chemistry Chapter 18 3 Notes Free and Paid eBooks

- Holt Modern Chemistry Chapter 18 3 Notes Public Domain eBooks
  - Holt Modern Chemistry Chapter 18 3 Notes eBook Subscription Services
  - Holt Modern Chemistry Chapter 18 3 Notes Budget-Friendly Options
6. Navigating Holt Modern Chemistry Chapter 18 3 Notes eBook Formats
- ePub, PDF, MOBI, and More
  - Holt Modern Chemistry Chapter 18 3 Notes Compatibility with Devices
  - Holt Modern Chemistry Chapter 18 3 Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Holt Modern Chemistry Chapter 18 3 Notes
  - Highlighting and Note-Taking Holt Modern Chemistry Chapter 18 3 Notes
  - Interactive Elements Holt Modern Chemistry Chapter 18 3 Notes
8. Staying Engaged with Holt Modern Chemistry Chapter 18 3 Notes
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Holt Modern Chemistry Chapter 18 3 Notes
9. Balancing eBooks and Physical Books Holt Modern Chemistry Chapter 18 3 Notes
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Holt Modern Chemistry Chapter 18 3 Notes
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Holt Modern Chemistry Chapter 18 3 Notes
- Setting Reading Goals Holt Modern Chemistry Chapter 18 3 Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Holt Modern Chemistry Chapter 18 3 Notes
- Fact-Checking eBook Content of Holt Modern Chemistry Chapter 18 3 Notes
  - 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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