

## CHAPTER 6

## Section 3: Water and Solutions

*Study Guide*

In your textbook, read about water's polarity.

Label the diagram. Use these choices:

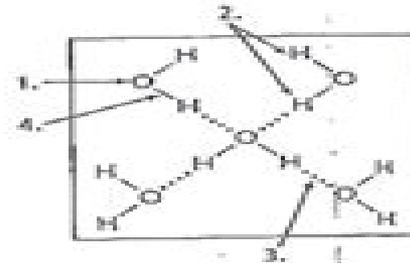
covalent bond

hydrogen bond

slightly negative end

slightly positive end

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_



In your textbook, read about mixtures with water.

For each statement below, write true or false.

- \_\_\_\_\_ 5. A mixture is a combination of two or more substances in which each substance retains its individual characteristics.
- \_\_\_\_\_ 6. A suspension is a mixture that has a uniform composition throughout.
- \_\_\_\_\_ 7. In a mixture, the solvent is the substance that is dissolved.
- \_\_\_\_\_ 8. A mixture of sand and water is a heterogeneous mixture.
- \_\_\_\_\_ 9. A suspension is a homogeneous mixture in which water is mixed with a substance that does not dissolve in it.

In your textbook, read about acids and bases.

Use each of the terms below only once to complete the passage.

acids

bases

biology

buffers

hydrogen ions

neutral

pH

Substances that release hydrogen ions when dissolved in water are called

(10) \_\_\_\_\_. The more (11) \_\_\_\_\_ a substance

releases, the more acidic the solution becomes. Substances that release hydroxide ions when dissolved in

water are called (12) \_\_\_\_\_. Acids and bases are key substances in

(13) \_\_\_\_\_. The concentration of hydrogen ions in a solution is called

(14) \_\_\_\_\_. Pure water is (15) \_\_\_\_\_ and has a pH

value of 7.0. (16) \_\_\_\_\_ are weak acids or weak bases that can react with strong

acids or strong bases to keep the pH within a particular range.

# Study Guide Chapter 6 Section 3 Water And Solutions

**Huangqi Zhang**



**Study Guide Chapter 6 Section 3 Water And Solutions:**

This book delves into Study Guide Chapter 6 Section 3 Water And Solutions. Study Guide Chapter 6 Section 3 Water And Solutions is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Study Guide Chapter 6 Section 3 Water And Solutions, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Study Guide Chapter 6 Section 3 Water And Solutions
    - Chapter 2: Essential Elements of Study Guide Chapter 6 Section 3 Water And Solutions
    - Chapter 3: Study Guide Chapter 6 Section 3 Water And Solutions in Everyday Life
    - Chapter 4: Study Guide Chapter 6 Section 3 Water And Solutions in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Study Guide Chapter 6 Section 3 Water And Solutions. The first chapter will explore what Study Guide Chapter 6 Section 3 Water And Solutions is, why Study Guide Chapter 6 Section 3 Water And Solutions is vital, and how to effectively learn about Study Guide Chapter 6 Section 3 Water And Solutions.
  3. In chapter 2, this book will delve into the foundational concepts of Study Guide Chapter 6 Section 3 Water And Solutions. This chapter will elucidate the essential principles that need to be understood to grasp Study Guide Chapter 6 Section 3 Water And Solutions in its entirety.
  4. In chapter 3, this book will examine the practical applications of Study Guide Chapter 6 Section 3 Water And Solutions in daily life. The third chapter will showcase real-world examples of how Study Guide Chapter 6 Section 3 Water And Solutions can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Study Guide Chapter 6 Section 3 Water And Solutions in specific contexts. The fourth chapter will explore how Study Guide Chapter 6 Section 3 Water And Solutions is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Study Guide Chapter 6 Section 3 Water And Solutions. 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. It is highly recommended for anyone seeking to gain a comprehensive understanding of Study Guide Chapter 6 Section 3 Water And Solutions.

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