

# Basic Chemistry Study Guide 2

## 1. Hydrogen bonds

1. Form between two polar molecules **covalent bonds**
2. A hydrogen's &+ region is attracted to a &- region in another molecule.
3. Form between water molecules (Where are the &+ and &- regions in a water molecule? **hydrogen bonds, at the top of the symbol**)
4. Each hydrogen bond is very weak (can be easily formed and broken).
5. There are many hydrogen bonds in water. Together, these bonds give water its unique properties that are essential for life.
6. One of these properties is the ability to be a solvent for other polar molecules.
7. Hydrogen bonds are depicted in figures as dotted or dashed lines between two atoms.

## 2. Solutions, solvents, and solutes

1. Water is the most abundant molecule in living organisms, and 60% of human body weight is water.
2. Water is located inside and outside of our cells.
3. Body fluids are solutions.
4. Define the terms **solution**, **solvent**, and **solute** **Solvent: a substance capable of dissolving other polar molecules and ionic bonds; solutes: molecules dissolved in the solvent, solution: homogeneous mixture**

## 3. How substances dissolve in water

1. When a solute dissolves, it becomes surrounded by water molecules.
2. For a solute to dissolve, it must attract water molecules.
3. What kinds of substances attract water molecules? **Sugars, nucleic acids, and amino acids**
4. When a solute dissolves it forms hydrogen bonds with water molecules.
5. Define the terms **ion**, **cation**, and **anion**. **ion: atom with a charge; cation: positively charged ion, anions: negatively charged ion**
6. Define the terms **hydrophilic** and **hydrophobic** **Hydrophilic: attracted to water; hydrophobic: afraid of water**
7. What types of molecules are hydrophilic and what types are hydrophobic? **Nonpolar: hydrophobic, polar: hydrophilic**

# Study Guide Chemistry

**Paula Yurkanis Bruice**

## **Study Guide Chemistry:**

**Barron's Science 360: A Complete Study Guide to Chemistry with Online Practice** Barron's Educational Series, Mark Kernion, Joseph A. Mascetta, 2021-09-07 Barron's Science 360 Chemistry is your complete go to guide for everything chemistry. This comprehensive guide is an essential resource for High school and college courses, Homeschooling, Virtual Learning, Learning pods. Inside you'll find Comprehensive Content Review. Begin your study with the basic building block of chemistry and build as you go. Topics include atomic structure, chemical formulas, electrochemistry, the basics of organic chemistry and much more. Effective Organization: Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs. Clear Examples and Illustrations: Easy to follow explanations, hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning. Practice Exercises: Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts. These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress. Access to Online Practice: Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come. [Chemistry Study Guide](#) CreateSpace Independent Publishing Platform, 2014-09-09 Chemistry Study Guide for Students Who Struggle In Chemistry Inorganic

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