

# Basic Chemistry Study Guide 2

## 1. Hydrogen bonds

1. Form between two polar molecules **covalent bonds**
2. A hydrogen's  $\delta^+$  region is attracted to a  $\delta^-$  region in another molecule.
3. Form between water molecules (Where are the  $\delta^+$  and  $\delta^-$  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**

# Cellular Chemistry Study Guide

**Michal Rosen-Zvi**



## **Cellular Chemistry Study Guide:**

## Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Cellular Chemistry Study Guide**

In a global inundated with displays and the cacophony of immediate interaction, the profound power and mental resonance of verbal artistry often disappear into obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, nestled within the lyrical pages of **Cellular Chemistry Study Guide**, a captivating function of literary beauty that impulses with organic emotions, lies an memorable journey waiting to be embarked upon. Written by a virtuoso wordsmith, that mesmerizing opus courses readers on a psychological odyssey, lightly exposing the latent possible and profound affect stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is key themes, dissect its charming publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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