

## CHAPTER 2 WORKSHEET: CHEMISTRY OF LIFE

### 1. Chapter 2, Section 1: Nature of Matter

- a. Matter: anything that occupies space. Ex: Desk, Human, Air, ect.
- b. Atom: Smallest part of matter. It **can not** be broken down into smaller pieces. Composed of 3 particles: Protons (+), Electrons (-), and Neutrons (n)
- c. Element: Substance that is only made of one kind of atom. Ex: Hydrogen, Oxygen, ect.
  - i. C, H, N, O, P, S
- d. Compound: Two or more different atoms or elements joined together. Ex: Salt =
- e. Covalent Bond: Two or more atoms sharing electrons to form a molecule. Covalent bonds make molecules, ex: Water, Carbon Dioxide, and Oxygen Gas
- f. Hydrogen Bond: A weak chemical attraction between **polar** molecules. Ex: Two water molecules
- g. Ionic Bond: Gain or Loss of electrons that create a molecule
- h. Ion: An atom that has gained (-) electrons or (loss) electrons (+)

### 2. Chapter 2, Section 2: Water and Solutions

- a. How does water help maintain homeostasis?
  - i. Heats slowly
  - ii. Retains heat
  - iii. Carries Heat away through water vapor (sweating)
  - iv. Universal solvent (anything except for a polar substance can dissolve in it)
- b. What is the difference between adhesion & cohesion?
  - i. Adhesion: different substances
  - ii. Cohesion: alike substances
- c. What is the pH range for an Acid? Base?
  - i. Acid = 0 – 6.9
  - ii. Neutral = 7
  - iii. Base = 7.1 – 14
- d. What type of substance is an example of an acid? Of a base?
  - i. Acids: Lemon, Vinegar, Milk
  - ii. Bases: Household cleaning material

### 3. Chapter 2, Section 3: Chemistry of Cells

- a. Carbohydrates: Organic substances, made up of carbon, hydrogen and oxygen atoms. Always in the ratio of 1:2:1. Key source of energy.
  - i. They are made up of Monosaccharide: Single sugars (glucose)
  - ii. Disaccharides are double sugars: Sucrose
  - iii. Polysaccharides: Starch and cellulose

# Chapter Test Chemistry Of Life Answer Key

**H Kauffman**



**Chapter Test Chemistry Of Life Answer Key:**

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In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter Test Chemistry Of Life Answer Key**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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