

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

The Chemistry Of Life Chapter 2 Answers

M Mosston



The Chemistry Of Life Chapter 2 Answers:

The Chemistry Of Life Chapter 2 Answers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **The Chemistry Of Life Chapter 2 Answers**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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