

## **AP Biology Study Guide Unit 1**

### **Properties of Water:**

1. Polarity - allows H<sub>2</sub>O to form Hydrogen Bonds
2. Cohesion - Water H bonds to itself, creating surface tension
3. Adhesion - Water adheres to other polar substances
  - a. Allows easy transport of water against Gravity
4. Universal Solvent - Water can dissolve Polar and Ionic Compounds
  - a. This allows for reactions between Aqueous Solutions
5. Expands when Frozen - this means that Ice floats
6. High Specific Heat - water can absorb or release a large amount of heat with only a slight change in its own temperature (caused by cohesion)
  - a. High Heat of Vaporization - only warmest molecules can evaporate, so this causes evaporative cooling
7. Can be regulated by non-polar hydrophobic substances
8. Neutral PH → can form acids or bases if substances are added

Polarity - Difference in electronegativity between atoms bonded together create slightly charged ends of the molecules they form

Hydrophobic Substance - Nonpolar substance that repels water

Hydrophilic Substance - Polar substance that attracts water molecules

### **CHON - Carbon, Hydrogen, Nitrogen, Oxygen**

- Makeup 99% of living matter
- Strong Biological Cornerstones Because:
  - Smallest Diameter/Valency for atoms of 1, 2, 3, 4 valence electrons
  - Form Stable Covalent Bonds
  - Can form double and triple bonds
  - Versatile

### **Biological Transition Metals - Mn, Fe, Co, Cu, Zn**

- Can exist in multiple oxidation states → can be both oxidized and reduced

### **Biological Ions: Na<sup>+</sup>, Mg<sup>2+</sup>, Cl<sup>-</sup>, K<sup>+</sup>, Ca<sup>2+</sup>**

- Used to maintain homeostasis and osmotic concentration

Phosphorous/Sulphur - Energy Carriers which form strong high energy bonds

### **5 Foundation Biological Molecules:**

# Guide Line Study For Ap Biology Campbell

**Julia Schneider**



## **Guide Line Study For Ap Biology Campbell:**

## Whispering the Techniques of Language: An Psychological Quest through **Guide Line Study For Ap Biology Campbell**

In a digitally-driven earth where displays reign supreme and quick interaction drowns out the subtleties of language, the profound secrets and mental subtleties concealed within phrases usually move unheard. Yet, nestled within the pages of **Guide Line Study For Ap Biology Campbell** a interesting fictional value blinking with organic feelings, lies an exceptional journey waiting to be undertaken. Penned by an experienced wordsmith, this charming opus attracts viewers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the very cloth of every word. Within the mental depths with this poignant review, we will embark upon a heartfelt exploration of the book is primary subjects, dissect their fascinating publishing model, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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