

## **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:**

# 42 Ap Biology Study Guide Answers

**Sundar Nathan**



## 42 Ap Biology Study Guide Answers:

**AP Biology Study Guide** Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test

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