

## **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:**

# Ap Biology Chapter Study Guide

**Deborah T. Goldberg**



## Ap Biology Chapter Study Guide:

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web radiation therapy or radiotherapy often abbreviated rt rtx or xrt is a treatment using ionizing radiation generally provided as part of cancer therapy to either kill or control the growth of malignant cells it is normally delivered by a linear particle accelerator radiation therapy may be curative in a number of types of cancer if they are localized to one area

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web strahlentherapie auch radiotherapie oder strahlenbehandlung ist die medizinische anwendung von ionisierender strahlung auf den menschen und auf tiere um krankheiten zu heilen oder deren fortschreiten zu verzögern die strahlung kann aus geräten oder aus radioaktiven präparaten stammen fachgebiete für diese spezielle anwendung

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web die strahlentherapie auch radiotherapie genannt gehört mit der operation und der chemotherapie zu den drei säulen der krebstherapie sie nutzt energiereiche strahlung um krebserkrankungen zu heilen zu verlangsamen oder ihrem wiederauftreten vorzubeugen typische erkrankungen die häufig mit bestrahlung behandelt werden sind

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web ziel der strahlentherapie ist es tumorzellen zu zerstören und dabei gesundes gewebe so weit wie möglich zu schonen je nach zielsetzung der behandlung unterscheidet man zwischen kurativer und palliativer strahlentherapie bei einer kurativen strahlentherapie ist das ziel die heilung der tumor Erkrankung wenn dieses möglich ist



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web eine strahlentherapie ist notwendig um lokalisierbaren sichtbaren oder unsichtbaren krebsbefall abzutöten ziel ist es die patienten von der krebserkrankung zu heilen oder bei unheilbaren krebserkrankungen die symptome zu lindern

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