

AP Biology Study Guide 1

Water Properties:

Cohesion- Hydrogen bonding between LIKE molecules
(ex. water with water)

Adhesion- Hydrogen bonding between UNLIKE molecules
(ex. water with a leaf)

Capillary Action- the movement of a liquid through a narrow space as a result of the forces of cohesion, adhesion, and surface tension.
(ex. Moving ground water from wet areas of soil to dry ones.)

Universal Solvent- Water is referred to as a universal solvent because it dissolves more substances than any other liquid.

Hydration Shell- the sphere of water molecules around each dissolved ion.

Moderation of Temperature- water moderates air temperature by absorbing heat from the air that is warmer and releasing stored heat to the air that is cooler.

Density- water is LESS dense as a SOLID than a LIQUID
(this is because of water's hydrogen bonds)

Polarity- water is a polar molecule because of the unequal distribution of electrons.

High Specific Heat- water has an unusually HIGH specific heat, this is how water is able to maintain its homeostasis and keep the ocean habitable.

Macromolecules:

Carbohydrates:

Elemental Makeup: Carbon, Hydrogen and Oxygen

Monomer: Monosaccharides (ex. Glucose & Fructose)

Polysaccharides:

Cellulose: Strengthens cell walls

Starch: Stores glucose for energy (plants)

Glycogen: Stores glucose for energy (animals)

Chitin: Strengthens exoskeletons and fungal cell walls

Key Function: Fuel, Carbon source to be converted to other molecules or into polymers

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AFB II and Bioguide European Commission. Directorate-General for Energy, ALTENER Programme, 1998 **Nancy Caroline's Emergency Care in the Streets** Nancy Caroline, 2010-08-10 The impact that Dr Caroline had on EMS and health care spanned across the U S and abroad from establishing EMS systems to training paramedics to providing better nourishment and health care for orphans her work had a profound impact on humanity Throughout her life Dr Caroline brought a sense of excitement joy and humor to her work the American Academy of Orthopaedic Surgeons is proud to continue Dr Caroline s legacy Her sense of excitement and humor live on in this text which is dedicated to her This edition honors Dr Caroline s work with a clear fun understandable writing st *Nancy Caroline's Emergency Care in the Streets, Canadian Edition* Nancy L. Caroline, 2011-03-09 The Paramedic Association of Canada together with the American Academy of Orthopaedic Surgeons and Jones and Bartlett Publishers are proud to continue Dr Nancy Caroline s legacy by introducing *Emergency Care in the Streets Canadian Edition* Dr Caroline s work transformed EMS and the entire paramedic field She created the first national standard curriculum for paramedic training in the United States She also wrote the first paramedic textbook *Emergency Care in the Streets* In 2007 we welcomed back *Emergency Care in the Streets* with the publication of the Sixth Edition in the United States Now this program has been rewritten and revised by Canadian EMS experts specifically for Canadian paramedics using the National Occupational Competency Profiles *New and Future Developments in Microbial Biotechnology and Bioengineering* Ali Asghar Rastegari, Ajar Nath Yadav, Neelam Yadav, 2020-05-15 *New and Future Developments in Microbial Biotechnology and Bioengineering Trends of Microbial Biotechnology for Sustainable Agriculture and Biomedicine Systems Perspectives for Human Health* discusses how microbial biotechnology helps us understand new strategies to reduce pathogens and drug resistance through microbial biotechnology The most commonly used probiotic bacteria are Lactobacillus and Bifidobacterium Therefore the probiotic strains exhibit powerful anti inflammatory antiallergic and other important properties This new book provides an indispensable reference source for engineers bioengineers biochemists biotechnologists microbiologists pharmacologists and researchers who want to know about the unique properties of this microbe and explore its sustainable biomedicine future applications Introduces the principles of microbial biotechnology and its application for sustainable biomedicine system Explores various microbes and their beneficial application for biofortification of crops for micronutrients Explains the potentials and significance of probiotics prebiotics and synbiotics in health and disease Includes current applications of beneficial microbes as Functional Food Products of Pharmaceutical Importance *Reader's Guide to Periodical Literature Supplement*, 1919 These vols contain the same material as the early vols of Social sciences humanities index *Readers' Guide to Periodical Literature*, 1917 **Disorders of the Rotator Cuff and Biceps Tendon E-Book** Matthew T. Provencher, Brian J. Cole, Anthony A. Romeo, Pascal Boileau, Nikhil Verma, 2019-06-01 With a concise expert focus on one of today s hottest topics in shoulder

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