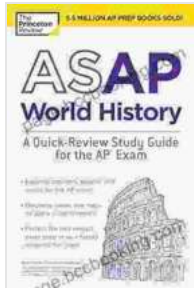


Ace Your AP Exam: The Ultimate Guide to the Quick Review Study Guide



ASAP Environmental Science: A Quick-Review Study Guide for the AP Exam (College Test Preparation)

by The Princeton Review

★★★★☆ 4.6 out of 5

Language : English
File size : 87455 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 304 pages



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- Physics
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Unit 1
 Chemistry of Life

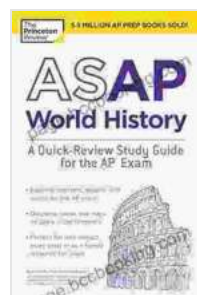
Unit 2
 Cell Structure & Function

Unit 3
 Cellular Energetics

- Water has hydrogen bonds & H₂O is polar
- **Cohesion** (water molecules stick to each other)
- **Adhesion** (water molecules stick to other molecules)
- **Surface tension** (bugs walk on water)
- **Hydrolysis** = cleave monomer bond; deny, split, a form
- **DNA and RNA** made of nucleic acids; genetic information
 - **Nucleotides** made of 1) deoxyribose, 2) phosphate group, 3) nitrogenous base
- **Proteins**: made of amino acids; order of the polypeptide = protein's structure and function
- **Carbohydrates**: made of four monomers; store energy
- **Lipids**: nonpolar; vary in saturation; found in cell membrane

- **Organelle** means: ribosomes make proteins; ER stores, makes lipids; Golgi complex folds, packages proteins; **mitochondria** powerhouse of cell; **lysosomes** recycle waste
- **cell membrane** folds → increase surf. area; more ATP made; more resources; more waste expelled = cell will
- **High surface area** = smaller volume = ideal ratio for cells
- **Phospholipid bilayers** are (p)icky; nutrients pass on their own, some need channel proteins to transport
 - **Small molecules** (H₂O, O₂, CO₂) easily pass; large polar don't
 - **Passive transport** = high to low conc; no ATP cost
 - **ATP** sustains diffusion; some proteins to move

- **Enzymes** lower activation energy → catalyze chem. rxn.
- Enzymes meet **substrate** @ **active site**
- Enzymes have certain pH, temperature, concentration, otherwise they'll be less efficient or **denature**
- **Competitive inhibitors** (compete for active site) and **noncompetitive inhibitors** (take up active site binding) = **BAD**
- **PHOTOSYNTHESIS** = 2 parts: 1) prokaryotes charge electrons to photosystems I and II w/ light energy, 2) Calvin cycle powers carb. production @ storing using electrons
- Cell respiration (need O₂ & fermentation don't need) make ATP
- **CELL RESPIRATION**: transfer of electrons → proton gradient → ATP produced → organism used for work → cycle repeats
- **Big takeaway**: organisms always need energy to live!



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