

# AP Biology Vocabulary List by Chapter

## Chapter 1

Biosphere  
Ecosystem  
Biological community  
Population  
Organism  
Organ system  
Organ  
Tissue  
Cell  
Organelle  
Molecule  
Producer  
Consumer  
DNA  
Genes  
Genome  
Emergent properties  
Negative feedback regulation  
Positive feedback regulation  
Taxonomy  
Natural selection  
**Science Inquiry**  
**Observation**  
**Data**  
**Hypothesis**  
**Controlled experiment**

## Chapter 2

Matter  
Element  
Compound  
Trace elements  
Atom  
Neutron  
Protons  
Electron  
Atomic nucleus  
Atomic number  
Mass number  
Atomic mass  
Isotopes  
Radioactive isotope

## **Energy**

Potential energy  
Kinetic energy  
Energy levels  
Valence electrons  
Electron configuration  
**Chemical bonds**  
**Covalent bonds**  
**Ionic bonds**  
**Hydrogen bonds**  
Van der Waals interactions  
Molecule  
Single bond  
Double bond  
Triple bond  
Structural formula  
Molecular formula  
Electronegativity  
**Nonpolar covalent bond**  
**Polar covalent bond**  
Anion  
Cation  
Ionic compound  
Chemical reaction  
**Reactants**  
**Products**  
Chemical equilibrium

## Chapter 3

**Cohesion**  
**Adhesion**  
**Surface tension**  
Heat  
Temperature  
Specific heat  
**Heat of vaporization**  
**Evaporative cooling**  
**Solution**  
**Solvent**  
**Solute**  
**Aqueous solution**  
Hydrophilic  
Hydrophobic

## Molecular mass

Mole  
**Molar mass**  
**Molarity**  
**Hydroxide ion**  
**Hydrogen ion**  
**Acid**  
**Base**  
pH  
pH scale  
**Buffers**

## Chapter 4

Organic chemistry  
Tetravalence  
**Hydrocarbons**  
**Isomers**  
Structural isomer  
Geometric isomer  
**Functional group**  
**Hydroxyl group**  
**Carbonyl group**  
**Carboxyl group**  
**Amino group**  
**Sulfhydryl group**  
**Phosphate group**  
**ATP**

## Chapter 5

Macromolecule  
**Polymer**  
**Monomer**  
**Dehydration reaction**  
**Hydrolysis**  
Carbohydrates  
**Monosaccharides**  
**Disaccharides**  
**Polysaccharides**  
Glycosidic linkage  
Glycogen  
Cellulose  
Chitin  
**Lipids**

# Biology Chapter 18 Vocabulary

**Sir Edwin Ray Lankester**



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