

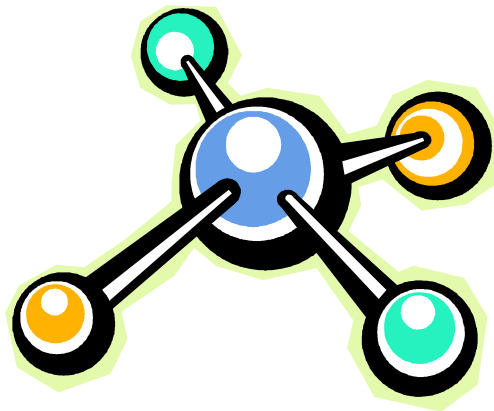
# Chapter 1: THE SCIENCE OF BIOLOGY

- Analogous
- Applied research
- Artificial selection
- **Atom**
- Basic research
- Biosphere
- **Cell**
- **Cell Theory**
- Community
- Control experiment
- Deductive reasoning
- **DNA**
- Ecosystem
- **Eukaryotes**
- **Evolution**
- Experiment
- Homologous
- Hypothesis
- Inductive reasoning
- **Macromolecule**
- **Molecule**
- **Natural selection**
- **Organ**
- **Organelle**
- **Organism**
- **Organ System**
- Phylogenetic tree
- Population
- **Prokaryotes**
- Species
- Reductionism
- Test experiment
- **Tissue**
- Theory
- Variable



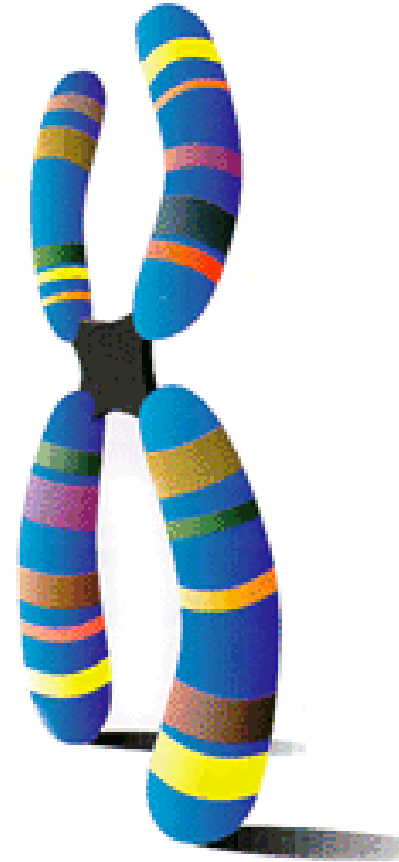
# Chapter 2: THE NATURE OF MOLECULES

- Acid
- Adhesion
- Anion
- Atom
- Atomic mass
- Atomic number
- Base
- Buffer
- Cation
- Chemical bond
- Cohesion
- Compound
- Covalent bond
- Double bond
- Electron
- Electronegativity
- Element
- Energy level
- Half-life
- Heat of vaporization
- Hydration shell
- Hydrogen bond
- Hydrophilic
- Hydrophobic
- Hydrophobic exclusion
- Hydroxide ion
- Ion
- Ionic bond
- Ionic compound
- Ionization
- Inert
- Isotope
- Matter
- Molar concentration
- Molecular formula
- Molecule
- Neutron
- Octet rule of eight
- Oxidation
- pH scale
- Polar molecule
- Product
- Proton
- Radioactive isotope
- Reactant



## Chapter 3: THE CHEMICAL BUILDING BLOCKS OF LIFE

- Alpha form
- Amino acid
- Beta form
- Carbohydrate
- Cellulose
- Chaperone protein
- Complementary
- Contractile protein
- Dehydration synthesis
- Deoxyribonucleic acid (DNA)
- Denaturation
- Disaccharide
- Dissociation
- Domain
- Double helix
- Enzyme
- Fat
- Functional group
- Hydrocarbon
- Hydrolysis
- Isomer
- Intercellular messenger
- Lipid
- Macromolecule
- Molecular chaperone
- Monosaccharide
- Motif
- Nucleic acid
- Nucleotide
- Organic molecule
- Peptide bond
- Polypeptide
- Polysaccharide
- Polyunsaturated fat
- Primary structure
- Protein
- Quaternary structure
- Ribonucleic acid (RNA)
- Saturated fat
- Secondary structure
- Starch
- Tertiary structure
- Triacylglycerol (triglyceride)
- Unsaturated fat



# Chapter 4: CELL STRUCTURE

- 9+2 structure
- Actin
- Actin filaments (microfilaments)
- Amyloplast
- Basal body
- Cell theory
- **Cell wall**
- Central vacuole
- **Centrioles**
- Centrosome
- **Chloroplast**
- Chromatin
- **Chromosomes**
- Cilium
- Cisternae
- Cisternal space (lumen)
- Compound microscope
- Cristae
- **Cytoplasm**
- **Cytoskeleton**
- Dynein
- Electron microscope
- Endomembrane system
- Endoplasmic reticulum (ER)
- **Endosymbiosis**
- Extracellular matrix (ECM)
- Fibronectin
- **Flagella (flagellum)**
- Glyoxysome
- **Golgi bodies/Golgi apparatus/Golgi complex**
- Gram negative
- Gram positive
- Grana (granum)
- Histones
- Integrins
- Intermediate filaments
- Intermembrane space
- Kinesin
- Keratin
- Leucoplast
- Light microscope
- Liposome
- **Lysosome**
- Markers
- Matrix
- Microbody
- Microtubules
- Microtubule-organizing center
- Microvillus
- Middle lamella
- **Mitochondria (mitochondrion)**
- Myosin
- **Nuclear envelope**
- **Nuclear pore**
- **Nucleoli (nucleolus)**
- Nucleosomes
- **Nucleus**
- Nucleoid
- **Organelle**
- Peptidoglycan
- Pericentriolar material
- Peroxisomes
- **Plasma membrane**
- Plastids
- Polymerization
- Primary walls
- Pseudopod
- Receptor proteins
- Resolution
- Ribosomal RNA (rRNA)
- **Ribosomes**
- **Rough endoplasmic reticulum (RER)**
- Scanning electron microscope (SEM)
- Secondary walls
- **Smooth endoplasmic reticulum (SER)**
- Surface area-to-volume ratio
- Tonoplast
- Transport proteins
- Thylakoids
- Transmission electron microscope (TEM)
- **Vacuoles**
- **Vesicles**
- Vimentin

