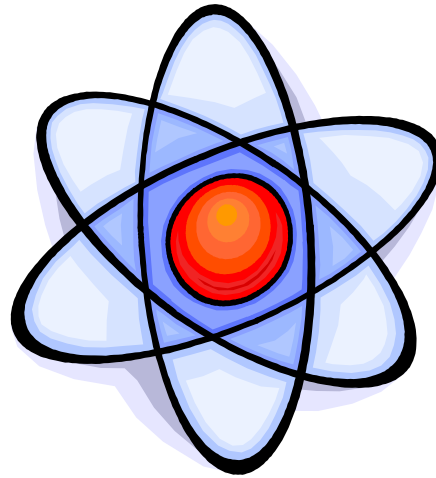


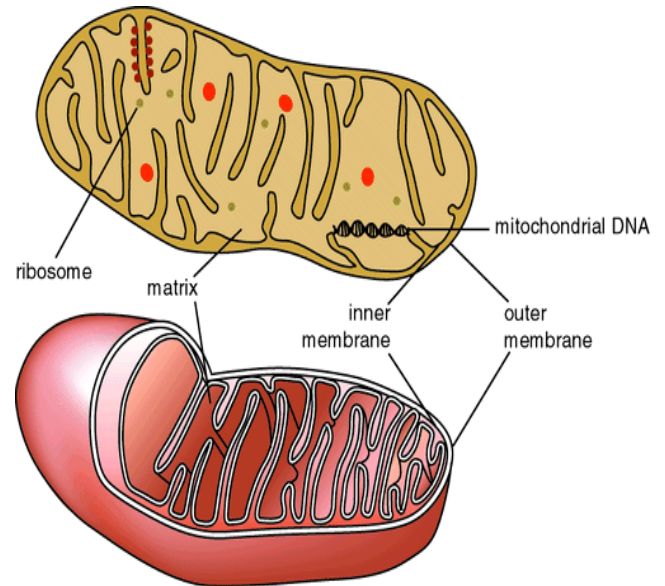
Chapter 6: ENERGY AND METABOLISM

- **Activation energy**
- **Activator**
- **Active site**
- **Adenosine diphosphate (ADP)**
- **Adenosine monophosphate (AMP)**
- **Adenosine triphosphate (ATP)**
- **Allosteric inhibitor**
- **Allosteric site**
- **Anabolism**
- **Biochemical pathway**
- **Bioenergetics**
- **Catabolism**
- **Catalysis**
- **Catalyst**
- **Coenzyme**
- **Cofactor**
- **Competitive inhibitor**
- **Endergonic reaction**
- **Energy**
- **Enthalpy (H)**
- **Entropy (S)**
- **Enzyme**
- **Enzyme-substrate complex**
- **Exergonic reaction**
- **Feedback inhibition**
- **First Law of Thermodynamics**
- **Free energy (G)**
- **Heat**
- **Inhibitor**
- **Kilocalorie (kcal)**
- **Kinetic energy**
- **Metabolism**
- **Multienzyme complex**
- **Noncompetitive inhibitor**
- **Oxidation**
- **Oxidation-reduction reaction (redox reaction)**
- **pH optimum**
- **Potential energy**
- **Reduction**
- **Second Law of Thermodynamics**
- **Substrate**
- **Temperature optimum**
- **Thermodynamics**



Chapter 7: HOW CELLS HARVEST ENERGY

- Acetyl-CoA
- **Aerobic respiration**
- **Anaerobic respiration**
- ATP synthase
- **Autotroph**
- β -oxidation
- Catabolism
- Cellular respiration
- **Chemiosmosis**
- **Cytochrome c**
- Deamination
- Decarboxylation
- Dehydrogenation
- **Digestion**
- **Electron transport chain**
- **Ethanol fermentation**
- **Fermentation**
- Flavin adenine dinucleotide (FAD^+)
- Glyceraldehyde-3-phosphate (G3P)
- **Glycolysis**
- **Heterotroph**
- **Krebs cycle (Citric acid cycle)**
- **Lactic acid fermentation**
- Maximum efficiency
- Methanogen
- **NAD^+** (Nicotinamide adenine dinucleotide)
- **NADH**
- NADH dehydrogenase
- Nitrogen fixation
- Oxaloacetate
- **Oxidative phosphorylation**
- Pyruvate
- Pyruvate dehydrogenase
- **Substrate-level phosphorylation**



Chapter 8: PHOTOSYNTHESIS

- Absorption spectrum
- Accessory pigment
- Action spectrum
- Antenna complex
- ATP synthase
- *b₆-f* complex
- CAM (crassulacean acid metabolism) plants
- C₃ photosynthesis
- C₄ photosynthesis
- Calvin cycle
- Carbon fixation
- Carotenoids
- Chlorophyll *a*
- Chlorophyll *b*
- Cyclic photophosphorylation
- Cytochrome
- Ferredoxin (Fd)
- Grana
- Light-dependent reactions
- Light-independent reactions
- NADP reductase
- Noncyclic photophosphorylation
- Phosphoglycerate (PGA)
- Photoelectric effect
- Photon
- Photorespiration
- Photosynthesis
- Photosystem
- Photosystem I
- Photosystem II
- Pigment
- Plastocyanin (PC)
- Plastoquinone (Q)
- Reaction center
- Ribulose 1,5 bisphosphate (RuBP)
- Rubisco
- Stomata
- Stroma
- Thylakoid membrane

