

**Honors Biology**  
**Semester 1 Final Exam Study Guide**

**The Introduction to Biology**

The scientific method

Homeostasis

Purpose and Hypothesis

Theory

**The Chemistry of Life**

Matter, elements, atoms, compounds

Properties of water: adhesion, cohesion, hydrogen bonds

Location and charge of protons, neutrons, electrons

Atomic number vs. Mass number

Isotopes

Differences in the types of bonds: covalent, ionic, hydrogen

Difference between exothermic and endothermic reactions

Solution, solute and solvent

What is an acid, base, salt? And how is a pH scale used?

Monomers and Polymers

Carbohydrates

lipids: fats, phospholipids, steroids and waxes

amino acids and proteins

Enzymes and Activation energy and Catalyst and Substrate and active site

Nucleic acids- RNA, DNA

**Cell Structure and Function**

Parts of a compound microscope

How to use a microscope

Magnification, resolution

Three principles of the cell theory

Parts of the cell, their function and location

Differences between prokaryotes and eukaryotes

Differences between an animal and plant cell

Nature of the cell membrane, phospholipid bilayer, semi-permeable membrane and fluid mosaic model

Passive transport, osmosis, diffusion and facilitated diffusion and concentration gradient

Hypertonic, hypotonic and isotonic solutions

Active transport- Endocytosis, exocytosis

Ion channels

**Cells and Energy**

Photosynthesis

Getting energy from ATP

Photosynthesis reaction equation

Chloroplast, chlorophyll, pigments

Light reactions, dark reactions

Calvin Cycle

Electron transport chain

ATP synthase

Glycolysis

Cellular respiration, ATP- how much formed at each step

Respiration reaction equation

Anaerobic and aerobic respiration

Fermentation

# 2nd Semester Biology Final Exam Review Packet

**Jiyuan Zhang**



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