

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

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lipids: fats, phospholipids, steroids and waxes

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Nucleic acids- RNA, DNA

Cell Structure and Function

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How to use a microscope

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Differences between an animal and plant cell

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Respiration reaction equation

Anaerobic and aerobic respiration

Fermentation

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Liyong Dong



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