

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

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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

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Parts of the cell, their function and location

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Differences between an animal and plant cell

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Getting energy from ATP

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Electron transport chain

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Cellular respiration, ATP- how much formed at each step

Respiration reaction equation

Anaerobic and aerobic respiration

Fermentation

2nd Semester Biology Final Exam Review Packet

Marcel A. Müller



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