Biology Chapter 7 Study Guide

Cell

Parts of the cell theory

Types of microscopes

* Light microscope
* Electron microscope

Types of Electron Microscopes

Prokaryotic Cells

Eukaryotic Cells

Plasma membrane

Permeable

Selectively permeable

Phospholipid bilayer

Label the parts of a phospholipid

Fluid mosaic model

Parts of a microscope and their functions

What are the four things a plasma membrane is composed of? Describe each.

Label the plasma membrane

Labeling an animal cell

Organelle

Parts of a cell and their function

Cilia

Flagella

Types of transport (passive and active)

Three modes of passive transport (diffusion, facilitated diffusion, osmosis)

Dynamic equilibrium

What are three factors that control the rate of diffusion?

Channel proteins

Carrier proteins

Types of osmotic solutions (cell size)

Active transport

Endocytosis

Exocytosis