

# Biology Chapter 7.1 & 7.2 Study Guide

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Cell - the basic unit of structure and organization of organisms

Parts of the cell theory - All organisms are composed of one or more cells, all cells come from pre-existing cells, and that the cell is the basic unit of structure and organization of organisms

Types of microscopes

- Light microscope - Uses light and lenses, it is the simplest light microscope that uses one lens and natural light, it magnifies up to 1500 times, and the compound microscope uses multiple lenses
- Electron microscope - Uses a beam of electrons, magnifies up to 500,000 times, it was invented in the 1940s, and there are two types of electron microscopes.

Types of Electron Microscopes - The two types of electron microscopes are the scanning electron microscope and the transmission electron microscope.

Prokaryotic Cells - These cells contain a plasma membrane but does not contain membrane-bound organelles. These cells do not have a nucleus.

Eukaryotic Cells - These cells contain a plasma membrane and membrane-bound organelles

Plasma membrane - A thin flexible boundary between the cell and its environment

Permeable - Allows substances to pass through the membrane

Selectively permeable - The plasma membrane controls the movement of substances into and out of the cell

Phospholipid bilayer - Allows other molecules to "float" in the membrane

Label the parts of a phospholipid - The parts of a phospholipid are composed of a glycerol backbone, two fatty acid chains, and a phospholipid group

Fluid mosaic model - The phospholipid bilayer that allows other molecules to "float" in the membrane

Parts of a microscope and their functions - The parts of a microscope are the eyepiece, nosepiece, objective lenses, stage clips, stage, light source, arm, coarse adjustment knob, fine adjustment knob, diaphragm, and base. The eyepiece contains the ocular lens. the nosepiece holds the high and low power objective lenses that can be rotated to change magnification. The objective lenses magnification ranges to change 40x to 400x. The stage clips hold the slide in place. The stage

# Biology Chapter 7 Study Guide Answers Yeshouore

**David E. Sadava, Gordon H.  
Orians, Craig Heller, William K. Purves**



**Biology Chapter 7 Study Guide Answers Yeshouore:**

**Life Study Guide** David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

**Biology, Study Guide** Gilbert D. Brum, Larry McKane, Gerald Karp, 1993-10-28 This lively richly illustrated text makes biology relevant and appealing revealing it as a dynamic process of exploration and discovery Portrays biologists as they really are human beings with motivations misfortunes and mishaps much like everyone has Encourages students to think critically solve problems apply biological principles to everyday life

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