

# 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

# Chapter 7 Study Answers

**Los Angeles City School District**

A red circular graphic with a gradient, appearing as a partial circle on the right side of the page, overlapping the light blue bar.

## Chapter 7 Study Answers:

**CliffsNotes HESI A2 Science Cram Plan** Michael Reid,2021-04-13 A study guide for the HESI A2 science nursing school test that calendarizes a study plan for test takers depending on how much time they have left before taking the test Get a plan and make the most of the time you have left Whether you have two months one month or one week left before the exam you can turn to the experts at CliffsNotes for a trusted and achievable cram plan to ace the HESI A2 Science without ever breaking a sweat First you ll determine exactly how much time you have left to prepare for the exam Then you ll turn to the two month one month or one week cram plan for week by week and day by day schedules of the best way to focus your study according to your unique timeline Each stand alone plan includes Diagnostic tests help you pinpoint your strengths and weaknesses so you can focus your review on the topics in which you need the most help Subject areas review of material you should know for the exam biology chemistry anatomy and physiology and physics Practice exams with answers and detailed explanations *CliffsNotes ASVAB Cram Plan 2nd Edition* American BookWorks Corporation,Carolyn C. Wheater,Jane R. Burstein,2020-01-14 The perfect way to study for the ASVAB whether you have two months one month or even one week left to prepare The ASVAB Armed Services Vocational Aptitude Battery consists of ten subtests including Electronics Information Automotive and Shop Information Mechanical Comprehension and Assembling Objects that help determine what job in the U S military a successful enlistee is qualified for More than one million people per year participate in the ASVAB qualifying program Features of this plan to ace the test product include Timed boxed calendars for preparing to take the test two month study calendar one month study calendar and one week study calendar Diagnostic test that helps test takers pinpoint strengths and weaknesses so they can focus their review on topics in which they need the most help Subject reviews that succinctly cover need to know topics on the test Model practice test with answers and explanations **5 Steps to a 5 AP Psychology, 2014-2015 Edition** Laura Lincoln Maitland,2013-07-24 Get ready for your AP exam with this straightforward and easy to follow study guide updated for all the latest exam changes 5 Steps to a 5 AP Psychology features an effective 5 step plan to guide your preparation program and help you build the skills knowledge and test taking confidence you need to succeed This fully revised edition covers the latest course syllabus and provides model tests that reflect the latest version of the exam Inside you will find 5 Step Plan to a Perfect 5 1 Set Up Your Study Program 2 Determine Your Test Readiness 3 Develop Strategies for Success 4 Develop the Knowledge You Need to Score High 5 Build Your Test Taking Confidence 2 complete practice AP Psychology exams 3 separate plans to fit your study style Review material updated and geared to the most recent tests Savvy information on how tests are constructed scored and used **School Publication** Los Angeles City School District,1925 Test Success Patricia M Nugent,Barbara A Vitale,2020-01-13 Build confidence and improve test scores Success in nursing school starts here A complete review of core concepts plus 900 questions based on the latest NCLEX test plan build confidence and improve test scores from the beginning of nursing school Master tricky alternate

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