

Cell Division (MITOSIS) Ch 5 and MEIOSIS (Ch 6.1-6.2)

STUDY GUIDE

Name: _____

Date: _____

1. Name the 2 types of cell division and state the differences.

Mitosis - creates 2 identical cells to the parent. Produces body cells

Meiosis - creates 4 genetically different cells. Produces sex cells (sperm & egg)

2. What is the difference between the cell cycle and cell division?

The cell cycle is a series of events that a cell goes through in order to divide. It includes interphase, mitosis and cytokinesis.

Cell division includes mitosis (PMAT) and cytokinesis. It is the steps a cell goes through while dividing.

3. Describe the purpose of mitosis and list the 2 reasons for mitosis?

Mitosis purpose is to create body cells that are identical to the parent cell. It takes place in order to replace damaged and worn out cells.

4. What are the 4 main parts of the cell that are involved in mitosis?


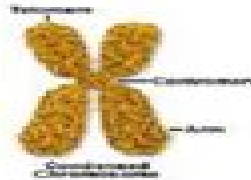
Centrioles

Spindle fibers

Nucleus/nuclear membrane

DNA

5. Explain the difference between a chromatid, sister chromatids, chromosomes, duplicated chromosomes and chromatin?

Word	Definition	Phases	Draw Picture
Chromatin	A ball of tightly coiled DNA found inside the nucleus.	Interphase	
Sister Chromatids	Also known as duplicated chromosomes. Visible in the form of an X.	Prophase Metaphase	

Meiosis Guide Answers

Phillip E. Pack



Meiosis Guide Answers:

Problem Solving Guide and Solutions Manual to Accompany Russell, Fundamentals of Genetics, First Edition Gail Patt, Anita Bennett, 1994 **BMAT Past Paper Worked Solutions: 2003 - 2016** BlackStone Tutors, 2018-04-14 With over 900 worked explanations and expert essay plans from 2003 2016 BlackStone Tutors BMAT Past Paper Worked Solutions is an essential BMAT revision aid BMAT Section 1 and 2 explanations are tailored by test experts focusing on time efficient techniques as well as providing invaluable BMAT tips The comprehensive BMAT Section 3 essay plans are complemented by a range of topical medical examples providing you with the competitive edge to succeed in this important section that contributes not only to your BMAT score but also to a range of medical school interviews **Study Guide and Solutions Manual** Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities

A Guide to Asking about Life for Teachers and TAs Donald L. Cronkite, 2001 *Study Guide to Accompany Principles of Genetics, 3rd Edition* D. Peter Snustad, Harold James Price, Michael J. Simmons, 2002-09-09 High quality illustrations with stepped out art to help readers visualize complex processes Human genetics and the role of the geneticist highlighted throughout Two new features in each chapter introductory Key Questions and closing Basic Exercises **Study Guide: Sg Concepts in Biology** Eldon D. Enger, Enger, Frederick C. Ross, 2003 **Student Companion Guide to Accompany Principles of Genetics, 4th Edition** D. Peter Snustad, H. James Price, Michael J. Simmons, 2005-12-23 In the rapidly advancing science of genetics currency and accuracy are critical This book presents the most up to date developments in genetics as well as the fundamental principles It stresses how genetics is done and provides historical and biographical insights to the people and events that have made genetics a pre eminent science Student Guide for Cycles of Life Gerald L. Kellogg, 2006 **Student Study Guide to Accompany Human Biology** Sylvia S. Mader, 2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis

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