

# Pre-AP Biology Study Guide

## Unit 4: Genetics

*This sub-unit will introduce students to general principals of mitosis and meiosis.*

### Part A: cell division

**Textbook Reference:** Pearson, *Essential Biology*; Chapter 8

**Vocabulary:** Please highlight all terms in your outline. Be sure to DEC them as appropriate.

chromosomes  
asexual reproduction  
sexual reproduction  
chromatin  
histones  
nucleosome  
sister chromatids  
centromere  
cell cycle  
interphase  
S Phase  
G1 Phase  
G2 Phase

mitotic phase  
mitosis  
cytokinesis  
prophase  
metaphase  
anaphase telophase  
mitotic spindle  
centrosomes  
cleavage furrow  
cell plate  
cell cycle control system  
cancer  
benign tumor

malignant tumor  
metastasis  
carcinoma  
sarcoma  
leukemia  
lymphoma  
radiation therapy  
chemotherapy  
somatic cell  
homologous  
chromosomes  
sex chromosomes  
autosomes

diploid  
gamete  
haploid  
fertilization  
meiosis (all stages)  
tetrad  
crossing over  
chiasma  
genetic recombination  
nondisjunction  
Down Syndrome  
Klinefelter Syndrome  
Turner Syndrome



**Chapter 8 Study Guide Questions (SGOs):** Answers must be written on a separate sheet of paper to earn credit.  
*All work must be your own.*

- List and explain all of the steps of the cell cycle. Diagram what the cell looks like during each step. Make sure to label the key parts of the cell including the chromosomes, nucleus, nuclear membrane, centrosome, centrioles etc.
- What is the purpose of mitosis?
- Why is cell division necessary?
- How are asexual and sexual reproduction similar, and how are they different?
- What is cancer? How can it be treated? What are some of the major causes of cancer?
- List and explain all of the steps of meiosis. Diagram what the cell looks like during each step. Make sure to label the key parts.
- What is the purpose of meiosis?
- What does it mean to be haploid and diploid? Relate these terms to mitosis and meiosis.
- How is genetic variation accomplished during meiosis?
- Discuss the major ways that errors can occur in meiosis. Please include diseases associated with those errors.

### Biology Calendar Unit 4 Part A:

Monday – November 08	Tuesday – November 09	Wednesday – November 10	Thursday – November 11	Friday – November 12
<b>Due:</b> 📌 Elodea Lab Report <b>In Class:</b> (chapter 8) 📌 Cancer Wrap Up 📌 Mitosis <b>HW:</b> 📌 Outline chapter 8 📌 Cancer PSA	<b>BLOCK DAY</b> <b>HW:</b> 📌 Outline chapter 8 📌 Cancer PSA	<b>Due:</b> 📌 chapter 8 outline <b>In Class:</b> (chapter 8) 📌 Errors in Meiosis 📌 Meiosis/Mitosis on Desktop <b>HW:</b> 📌 Cancer PSA 📌 Root beer questions	<b>Veterans Day NO SCHOOL</b> <b>HW:</b> 📌 SGOs 1-10 📌 Cancer PSA 📌 Root beer questions	<b>Due:</b> 📌 Root beer questions <b>In Class:</b> (chapter 8) 📌 Wrap Up/Review <b>HW:</b> 📌 SGOs 1-10 📌 Cancer PSA
Monday – November 15	Tuesday – November 16	Wednesday – November 17	Thursday – November 18	Friday – November 19
<b>Due:</b> 📌 SGOs & Outline <b>In Class:</b> 📌 Chapter 8 Test <b>HW:</b> 📌 Chapter 9 Reading Guide 📌 Cancer PSA	<b>BLOCK DAY No Class</b> <b>HW:</b> 📌 Chapter 9 Reading Guide 📌 Cancer PSA	<b>Computer Lab</b> <b>In Class:</b> (chapter 9) 📌 Patterns of Inheritance 📌 Punnett Squares 📌 A Tour of Genetics <b>HW:</b> 📌 Chapter 9 Reading Guide 📌 Cancer PSA	<b>Due:</b> 📌 Cancer PSA <b>In Class:</b> (chapter 9) 📌 Beyond Mendel 📌 Pedigrees <b>HW:</b> 📌 Finish Chapter 9 Guide 📌 Practice Problems	<b>Due:</b> 📌 Ch 9 Guide <b>In Class:</b> (chapter 10) 📌 Introduction to DNA and DNA Synthesis 📌 DNA Synthesis Practice <b>HW:</b> 📌 Practice Problems

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## **Pre Ap Biology Study Guide Prentice Hall:**

## **Pre Ap Biology Study Guide Prentice Hall** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Pre Ap Biology Study Guide Prentice Hall**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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