

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

Pre Ap Biology Study Guide

Didier Musso



Pre Ap Biology Study Guide:

Pre Ap Biology Study Guide Book Review: Unveiling the Magic of Language

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

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