

# Chapter 11: Introduction to Genetics

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## State Standards:

**Central Concepts:** Genes allow for the storage and transmission of genetic information. They are a set of instructions provided in the nucleotide sequence of each organism. Genes code for the specific sequences of amino acids that comprise the proteins characteristic to that organism.

- 1.1 Describe the basic structure (double helix, sugar-phosphate backbone, linked by complementary nucleotide pairs) of DNA, and describe its function in genetic inheritance.
- 1.2 Explain how mutations in the DNA sequence of a gene may or may not result in phenotypic change in an organism. Explain how mutations in genes may result in phenotypic changes in offspring.
- 1.4 Distinguish among observed inheritance patterns caused by several types of genetic traits (dominant, recessive, co-dominant, sex-linked, polygenic, incomplete dominance, multiple alleles).
- 1.5 Describe how Mendel's laws of segregation and independent assortment can be observed through patterns of inheritance (e.g., dihybrid crosses).
- 1.6 Use a Punnett Square to determine the probabilities for genotype and phenotype combinations in monohybrid crosses.

## Key Terms

Genetics

Trait

Heredity

Gene

Locus

Allele

Pure-breed

Hybrid

Self-Fertilize

Dominant

Recessive

Diploid

Haploid

Miosis

Homozygous

Heterozygous

Mendel's Law of Dominance

Dominant Allele

Recessive Allele

Homozygous Dominant

Homozygous Recessive

Gene Expression

Genotype

Phenotype

P, F<sub>1</sub>, F<sub>2</sub>

Monohybrid Cross

Test Cross

Homologous Chromosomes

Probability

Punnett-Square Method

Law of Segregation

D<sub>1</sub>-hybrid Crosses

Independent Assortment

## You should be able to:

1. Describe why Mendel chose to study garden peas
2. Summarize Mendel's experimental design, including what traits he was observing
3. Summarize the results of Mendel's experiments
4. Analyze genotypic and phenotypic data obtained by Mendel
5. Summarize Mendel's Theory of Heredity
6. Explain the Laws of Heredity: Law of Dominance, Law of Segregation and Law of Independent Assortment (and how they relate to meiosis/sexual reproduction)
7. Solve Monohybrid and Dihybrid word problems using Punnett squares
8. Describe the role of probability in genetics

# Chapter 11 2 Study Guide Introduction To Genetics

**Marcel A. Müller**



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## **Table of Contents Chapter 11 2 Study Guide Introduction To Genetics**

1. Understanding the eBook Chapter 11 2 Study Guide Introduction To Genetics
  - The Rise of Digital Reading Chapter 11 2 Study Guide Introduction To Genetics
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 11 2 Study Guide Introduction To Genetics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter 11 2 Study Guide Introduction To Genetics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 11 2 Study Guide Introduction To Genetics
  - Personalized Recommendations
  - Chapter 11 2 Study Guide Introduction To Genetics User Reviews and Ratings
  - Chapter 11 2 Study Guide Introduction To Genetics and Bestseller Lists

5. Accessing Chapter 11 2 Study Guide Introduction To Genetics Free and Paid eBooks
  - Chapter 11 2 Study Guide Introduction To Genetics Public Domain eBooks
  - Chapter 11 2 Study Guide Introduction To Genetics eBook Subscription Services
  - Chapter 11 2 Study Guide Introduction To Genetics Budget-Friendly Options
6. Navigating Chapter 11 2 Study Guide Introduction To Genetics eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 11 2 Study Guide Introduction To Genetics Compatibility with Devices
  - Chapter 11 2 Study Guide Introduction To Genetics Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 11 2 Study Guide Introduction To Genetics
  - Highlighting and Note-Taking Chapter 11 2 Study Guide Introduction To Genetics
  - Interactive Elements Chapter 11 2 Study Guide Introduction To Genetics
8. Staying Engaged with Chapter 11 2 Study Guide Introduction To Genetics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 11 2 Study Guide Introduction To Genetics
9. Balancing eBooks and Physical Books Chapter 11 2 Study Guide Introduction To Genetics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 11 2 Study Guide Introduction To Genetics
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chapter 11 2 Study Guide Introduction To Genetics
  - Setting Reading Goals Chapter 11 2 Study Guide Introduction To Genetics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 11 2 Study Guide Introduction To Genetics
  - Fact-Checking eBook Content of Chapter 11 2 Study Guide Introduction To Genetics
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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