

Study Guide - Unit 5 AP Biology

Created by Ria Wu

Explain the connection between alleles and genetic variation and provide an example.

Genetics is the study of _____ and _____.

Traits are passed from parent to offspring through _____.

What are homologous chromosomes?

Provide three differences between asexual and sexual reproduction

The _____ pair of chromosomes in a _____ are the _____-determining chromosomes

Match the correct genetic disorder to the characteristics

- | | |
|---------------------------|---------------------------------------------------------------------------|
| 1. Trisomy 21 | A. Due to an extra X chromosome in the sex-determining chromosomes |
| 2. Turner's Syndrome | B. A high pitched "cat-like" cry |
| 3. Cri du Chat | C. People with this disorder are much more susceptible X-linked disorders |
| 4. Klinefelter's Syndrome | D. Due to an extra chromosome in the 21st chromosome pair |

How many pairs of chromosomes are in a karyotype?

List three differences between gametic and somatic cells.

The end result of meiosis is _____.

What is a tetrad?

Describe what the phase of meiosis the photos are depicting and describes what happens in that phase.



A homozygous trait means that the alleles are _____.

A heterozygous trait means that the alleles are _____.

Why did Mendel use true-breeding plants in his experiments?

Label the first pedigree. In the next pedigrees, label them as autosomal recessive, autosomal dominant, or sex-linked.



Match the correct Principles of Heredity to its descriptions

- | | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Law of Segregation | A. This law states that the inheritance of one gene does not affect the inheritance of another gene. |
| 2. Law of Independent Assortment | B. This law states that alleles are segregated during the inheritance of alleles. A mother can only pass down one allele and a father can only pass down one allele for a specific trait. |
| 3. Law of Dominance | C. This law states that the dominant trait will cover the effects of the recessive trait. |

Which of the following statements is correct?

- | | | | |
|----------------------------------------------|--------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
| A. Mitochondrial DNA is maternally inherited | B. Chloroplast DNA is maternally inherited | C. Chloroplast and Mitochondrial DNA is maternally inherited. | D. Mitochondrial and Chloroplast DNA is paternally inherited |
|----------------------------------------------|--------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|

Match the Degree of Dominance to its definition

- | | |
|-------------------------|---------------------------------------------------------------------------------|
| 1. Complete Dominance | A. The dominant and recessive traits are both fully expressed in the phenotype. |
| 2. Incomplete Dominance | B. The dominant trait completely masks the effects of the recessive allele. |
| 3. Codominant Dominance | C. The dominant trait and the recessive trait are expressed, but not fully |

X-inactivation is when one of the _____ chromosomes in the _____ cell becomes _____ and turns into a _____.

Skin Color is an example of _____.

Genetic recombination is when an offspring is a _____ or _____ phenotype from the _____.

Why are linked genes more likely to be parental types and why are unlinked genes more likely to be recombinant types?

What is the given value that Collegeboard provides for the p-value in a Goodness of Fit test?

- | | | | |
|---------|---------|---------|---------|
| A. 0.05 | B. 0.01 | C. 0.50 | D. 0.10 |
|---------|---------|---------|---------|

The _____ of two organisms can be the same, but the _____ can impact the _____ of those organisms.

What do you do when the chi-square value is less than your critical value?

- | | | | |
|---------------------------|-----------------------------------|-------------------------------|-----------------------------------|
| A. Reject null hypothesis | B. Fail to reject null hypothesis | C. Accept the null hypothesis | D. Fail to reject null hypothesis |
|---------------------------|-----------------------------------|-------------------------------|-----------------------------------|

Match the disease to its characteristics (more than one answer)

- | | |
|-----------------------|------------------------------------------------------------------|
| 1. Colorblindness | A. Causes an abnormal amount of hemoglobin in an afflicted cell. |
| 2. Hemophilia | B. Causes a fatal buildup of fats or lipids in the brain |
| 3. Tay Sachs | C. An inability to clot blood properly |
| 4. Sickle Cell Anemia | D. An inability to see colors properly |
| | E. Caused by a mutation in the HEXA gene |
| | F. Caused by a mutation in the HBB gene |

What was the answer to the example problem involving the multiplication rule?

What was the answer to the example problem involving the addition rule?

The multiplication rule finds the probability of two _____ events occurring.

The addition rule finds the probability of two _____ events occurring.

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Lei Shi



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Table of Contents Ap Biology Chapter 5reading Guide Answers

1. Understanding the eBook Ap Biology Chapter 5reading Guide Answers
 - The Rise of Digital Reading Ap Biology Chapter 5reading Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Chapter 5reading Guide Answers
 - 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 Ap Biology Chapter 5reading Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Chapter 5reading Guide Answers
 - Personalized Recommendations
 - Ap Biology Chapter 5reading Guide Answers User Reviews and Ratings

- Ap Biology Chapter 5reading Guide Answers and Bestseller Lists
- 5. Accessing Ap Biology Chapter 5reading Guide Answers Free and Paid eBooks
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 - Ap Biology Chapter 5reading Guide Answers Budget-Friendly Options
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 - Ap Biology Chapter 5reading Guide Answers Enhanced eBook Features
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 - Highlighting and Note-Taking Ap Biology Chapter 5reading Guide Answers
 - Interactive Elements Ap Biology Chapter 5reading Guide Answers
- 8. Staying Engaged with Ap Biology Chapter 5reading Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Biology Chapter 5reading Guide Answers
- 9. Balancing eBooks and Physical Books Ap Biology Chapter 5reading Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Biology Chapter 5reading Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ap Biology Chapter 5reading Guide Answers
 - Setting Reading Goals Ap Biology Chapter 5reading Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ap Biology Chapter 5reading Guide Answers
 - Fact-Checking eBook Content of Ap Biology Chapter 5reading Guide Answers
 - Distinguishing Credible Sources

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

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