

# 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 to 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 describe 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?

The addition rule finds the probability of two \_\_\_\_\_ events occurring.

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

The multiplication rule finds the probability of two \_\_\_\_\_ events occurring.

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## **Table of Contents 43 Answer To Ap Biology Guide**

1. Understanding the eBook 43 Answer To Ap Biology Guide
  - The Rise of Digital Reading 43 Answer To Ap Biology Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying 43 Answer To Ap Biology Guide
  - 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 43 Answer To Ap Biology Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from 43 Answer To Ap Biology Guide
  - Personalized Recommendations
  - 43 Answer To Ap Biology Guide User Reviews and Ratings
  - 43 Answer To Ap Biology Guide and Bestseller Lists
5. Accessing 43 Answer To Ap Biology Guide Free and Paid eBooks

- 43 Answer To Ap Biology Guide Public Domain eBooks
  - 43 Answer To Ap Biology Guide eBook Subscription Services
  - 43 Answer To Ap Biology Guide Budget-Friendly Options
6. Navigating 43 Answer To Ap Biology Guide eBook Formats
- ePub, PDF, MOBI, and More
  - 43 Answer To Ap Biology Guide Compatibility with Devices
  - 43 Answer To Ap Biology Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 43 Answer To Ap Biology Guide
  - Highlighting and Note-Taking 43 Answer To Ap Biology Guide
  - Interactive Elements 43 Answer To Ap Biology Guide
8. Staying Engaged with 43 Answer To Ap Biology Guide
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 43 Answer To Ap Biology Guide
9. Balancing eBooks and Physical Books 43 Answer To Ap Biology Guide
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection 43 Answer To Ap Biology Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 43 Answer To Ap Biology Guide
- Setting Reading Goals 43 Answer To Ap Biology Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 43 Answer To Ap Biology Guide
- Fact-Checking eBook Content of 43 Answer To Ap Biology Guide
  - 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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