

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 _____rd 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?

The addition rule finds the probability of two _____

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

_____ events occurring.

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

Ap Bio Study Guide Answers Chapter 48

Sandy Fritz, Luke Allen Fritz



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Steps to a 5 on the Advanced Placement Examinations Mark Anestis, 2001-12 A review and study guide for advanced placement study in biology. *The Director and The Manager* David S. Fushtey, 2019-02-01 Machiavelli. *Had it Easy* is an engaging text for the emerging discipline of governance. Gaps arise when directors and managers come together from diverse vocational and cultural languages and interests. Compressed information streams in the digital age yet few reconcile silos of business, legal expertise and regulatory public interests for informed decisions. This text presents research and a market tested decision framework for comparative law, market practice and human nature in the vital strategic oversight role of governance. Informed by cognitive science, business practice and legal duties, one conclusion is that bias and self interests are instinctive but reconciling best interests is not. Too often lessons learned from centuries of law are overlooked. The chapters are a dozen inquiries into recurring problems in the boardroom. Part one is an entry level technical reference of law and governance principles. Unique appendices of keywords and case notes will aid those new to markets governed by the western rule of law and those tripping on gaps in comparative jargon. Part two is a series of practical hot topics in the context of law and governance. Part three looks to next steps in accountability and liability. The text will help accountants, engineers, lawyers and business operations and market policy experts from around the world work together and professors, professionals and students anticipate change. After drilling through accountability and liability for hybrid organizations,

typical crises are revealed to be from a lack of aligning interests and related information churn Conclusions of the how and why of governance systems link the human condition and the rule of law in the digital age [Instincts by Design](#) Ernest Howard Callahan,2023-09-12 Inside Instincts by Design you will discover scientific mysteries of human and animal bodies only creation can explain This fascinating full color book explores the instincts that are necessary for life helpful for growth and necessary for protection Instincts by Design will keep readers captivated with answers to questions like these How does a baby know when to inhale and exhale How does a mother s milk change to mee the needs of her baby Why is the instinct to sleep one that we cannot override Why is it important that your tongue is the center of your taste receptors Why is the hunger instinct crucial for survival What instincts help brainless jellyfish hunt and kill their prey Why would God give horses the ability to sleep standing up How do more than 5000 species of birds journey thousands of miles every year The key question for someone doubting there is a God is whether these complex sets of instructions could have appeared without a Programmer Instincts by Design is the ProBible resource you will want to share with family and friends who need more evidence that they are fearfully and wonderfully made by the Almighty God Christian readers will finish this book with an awe of the creative perfectionist God who loves us so much that he did all this for everyone [Book Review Digest](#) ,1923

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