

# 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?

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.

# Ch 56 Ap Bio Study Guide Answers

**Camilla Rothe**



## Ch 56 Ap Bio Study Guide Answers:

**Book Review Digest** ,1915     *The Code of Federal Regulations of the United States of America* ,2002 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government     AP Biology Mark Anestis,2006-12 Provides a study plan to build knowledge and confidence discusses study skills and strategies provides two practice exams and includes a review of the core concepts covered by the material     **Code of Federal Regulations** ,1999 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries     **Code of Federal Regulations** United States. Internal Revenue Service,2002 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of April 1 with ancillaries     *Title 21 Food and Drugs Parts 300 to 499 (Revised as of April 1, 2014)* Office of The Federal Register, Enhanced by IntraWEB, LLC,2014-04-01 The Code of Federal Regulations Title 21 contains the codified Federal laws and regulations that are in effect as of the date of the publication pertaining to food and drugs both legal pharmaceuticals and illegal drugs     **National Library Service Cumulative Book Review Index, 1905-1974: Titles. [A-Z** National Library Service Corporation,1975     *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70     **Publisher and Bookseller** ,1967 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series     *The Catholic Periodical and Literature Index* ,1956     **Readers' Guide to Periodical Literature** ,1918 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books     *The Catholic Periodical Index* ,1956-06     *Reader's Guide to Periodical Literature Supplement* ,1919 These vols contain the same material as the early vols of Social sciences humanities index     Industrial & Engineering Chemistry ,1928     **Journal of Education** ,1898     **Arts & Humanities Citation Index** ,1997     *Whitaker's Five-year Cumulative Book List* ,1968     The Bookseller ,1978     *Who's who in the South and Southwest* ,2005 Includes names from the States of Alabama Arkansas the District of Columbia Florida Georgia Kentucky Louisiana Mississippi North Carolina Oklahoma South Carolina Tennessee Texas and Virginia and Puerto Rico and the Virgin Islands     *Flowers and Botanical Subjects on Stamps ...* Shirley C. Tucker,1960 Topical collection flora topics on postage stamps

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