

# 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?

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.

# Answers To Ap Bio Study Guide

**Deborah T. Goldberg**



## Answers To Ap Bio Study Guide:

*AP Biology Study Guide* Sundar Nathan,2009-11 Sundar Nathan received a Bachelor s degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test **AP Biology** Tamar Aprahamian,Robert Brucker,Sharon A. Wynne,2017-07-31 Prepare for the AP Biology Exam with the updated study guide from XAMonline This comprehensive study guide has been formatted to correspond to the four Big Ideas described by the College Board evolution energy information and systems Expert knowledge and real world scientific experience allowed the authors to not only include the necessary review of the basic content but also the intertwined fundamental ideas underlying biology The full length practice tests have been designed to focus on complex questions that require critical thinking and problem solving similar to those on the actual AP Biology exam Highlights include 2 full length practice tests and answer keys End of chapter practice quizzes and answer keys Explanations for answers to all multiple choice and free response questions End of chapter summary and list of keywords for important concepts Illustrations throughout to give additional support to the learning experience **AP Biology For Dummies** Peter J. Mikulecky,Michelle Rose Gilman,Brian Peterson,2008-06-02 Relax The fact that you re even considering taking the AP Biology exam means you re smart hard working and ambitious All you need is to get up to speed on the exam s topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits That s where AP Biology For Dummies comes in This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test It also provides two full length practice exams complete with detailed answer explanations and scoring guides This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score And as a special bonus you ll also get a handy primer to help you prepare for the test taking experience Discover how to Figure out what the questions are actually asking Get a firm grip on all exam topics from molecules and cells to ecology and genetics Boost your knowledge of organisms and populations Become equally comfortable with large concepts and nitty gritty details Maximize your score on multiple choice questions Craft clever responses to free essay questions Identify your strengths and weaknesses Use practice tests to adjust you exam taking strategy Supplemented with handy lists of test taking tips must know terminology and more AP Biology For Dummies helps you make exam day a very good day indeed *AP Biology 2020 and 2021 - AP Biology Secrets Test Prep Book, Practice Question Book, Detailed Answer Explanations: [includes Step-By-Step Exam Review* Mometrix Test Preparation,2020-01-08 Mometrix Test Preparation s AP Biology 2020 and 2021 AP Biology Secrets Test Prep Book is the ideal prep solution for anyone who wants to pass their Advanced Placement Exam The exam is extremely challenging and thorough test preparation is essential for success Our study guide includes Practice

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*AP Biology* Tamar Aprahamian, Robert J. Brucker, Sharon A Wynne, 2016-05-13 Prepare for the 2017 AP Biology Exam with the updated study guide from XAMonline This comprehensive study guide has been formatted to correspond to the four Big Ideas described by the College Board evolution energy information and systems Expert knowledge and real world scientific experience allowed the authors to not only include the necessary review of the basic content but also the intertwined fundamental ideas underlying biology The full length practice tests have been designed to focus on complex questions that require critical thinking and problem solving similar to those on the actual AP Biology exam Highlights include 2 full length practice tests and answer keys End of chapter practice quizzes and answer keys Explanations for answers to all multiple choice and free response questions End of chapter summary and list of keywords for important concepts Illustrations throughout to give additional support to the learning experience

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