

# 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.

# Chapter 18 Study Guide Ap Biology Answers

**Lauren Gardner**



## Chapter 18 Study Guide Ap Biology Answers:

**Critical Care Study Guide** Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found. Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions. Because this knowledge base crosses many different disciplines, introduction to caring for the intensive care patient while exciting may also be intimidating. This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful. The book contains three components: 1) description of the procedural tasks commonly performed for the critically ill patient; 2) explanation of the most common pathophysiologic states encountered; and 3) description of specific disease entities with details of their differential diagnosis, diagnostic strategy, and therapeutic plan. This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks. Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy. As an additional study aid, margin notes highlight important teaching points and facilitate easy review of chapter content. To consolidate the principles outlined in each chapter, review questions with full text explanations are provided at the end of each chapter. All these elements help reinforce the most important messages for the reader.

**Williams Gynecology, Third Edition, Study Guide** Claudia L. Werner, Elysia Moschos, William F. Griffith, Victor E. Beshay, David D. Rahn, Debra L. Richardson, Barbara L. Hoffman, 2016-11-05 Gain a better understanding of the basic principles of gynecology presented in Williams Gynecology Third Edition with this full color study guide. Directly derived from the content of Williams Gynecology Third Edition, this authoritative study guide is designed to assess your understanding and retention of the acclaimed evidence-based coverage of the parent text. Here you will find everything you need for an efficient chapter-by-chapter review of the text material. Featuring a full color open design, the study guide contains more than 2,000 review questions with clinical vignettes, an answer key that includes corresponding textbook page numbers to aid further study, and hundreds of precise images to sharpen your visual diagnosis skills. The most rigorous gynecology summary available. NEW Color images included as question material. NEW Clinical case questions assess your ability to apply the content to real world patient encounters. More than 2,000 evidence-based multiple choice questions cover every major topic in clinical gynecology. Includes a mix of straight Q & A and clinical vignettes. Answer key provides the correct answer and cites page numbers in Williams Gynecology Third Edition to prompt in-depth discussion and continued study. Coverage spans reproductive endocrinology and infertility, female pelvic medicine, reconstructive surgery, and gynecologic oncology.

**Chemistry** John Christian Bailar, 1984

**Parapsychology** Etzel Cardeña, John Palmer, David Marcusson-Clavertz, 2015-07-25 Many people have experienced such unusual phenomena as dreams that later seem to correspond with unforeseeable events, thinking of a long lost friend just before he or she unexpectedly calls, or the ability to

feel the presence of deceased loved ones What many do not realize is that these types of experiences have been researched for more than a century by eminent scientists including Nobel laureates Most of these researchers have concluded that some of these phenomena do occur although we are far from explaining them to everyone s satisfaction This book is the first in almost 40 years to provide a comprehensive scientific overview of research in the field of parapsychology explaining what we know and don t know about so called psi phenomena such as telepathy precognition or psychokinesis Contributors evaluate the evidence for these phenomena accounting for factors such as selective memory wish fulfillment and incorrect methods or analyses in some cases offering psychological physical and biological theories Instructors considering this book for use in a course may request an examination copy here

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