

# Study Guide - Unit 5 AP Biology

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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.

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