

# 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.

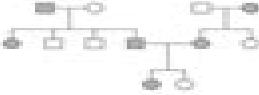


A homozygous trait means that the alleles are \_\_\_\_\_.

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 \_\_\_\_\_ events occurring.

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The multiplication rule finds the probability of two \_\_\_\_\_ events occurring.

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## **Table of Contents Ap Biology Genetics Study Guide**

1. Understanding the eBook Ap Biology Genetics Study Guide
  - The Rise of Digital Reading Ap Biology Genetics Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Genetics Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ap Biology Genetics Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Genetics Study Guide

- Personalized Recommendations
- Ap Biology Genetics Study Guide User Reviews and Ratings
- Ap Biology Genetics Study Guide and Bestseller Lists

5. Accessing Ap Biology Genetics Study Guide Free and Paid eBooks

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- Interactive Elements Ap Biology Genetics Study Guide

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- Participating in Virtual Book Clubs
- Following Authors and Publishers Ap Biology Genetics Study Guide

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- Benefits of a Digital Library
- Creating a Diverse Reading Collection Ap Biology Genetics Study Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Ap Biology Genetics Study Guide

- Setting Reading Goals Ap Biology Genetics Study Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ap Biology Genetics Study Guide

- Fact-Checking eBook Content of Ap Biology Genetics Study Guide
- Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web mar 13 2018 the j55 api 5ct casing pipe is a comparatively low steel grade in oil drilling it is widely applied for shallow oil and gas extraction because of its low cost among other grades of steel it enjoys wider applications can be generally used in shallow wells geothermal wells and water wells n80 casing

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web jun 27 2010 ask the api or your casing supplier my baker tech facts book says the recommended makeup torque for 5 1 2 15 5ppf k55 stc casing 2220 ft lbs 5 1 2 15 5ppf k55 ltc casing is 2390ft lbs it doesn t list the makeup for special clearance couplings other than the size special clearance 5 1 2 coupling is 5 875 diameter

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web api 5ct j55 is a commonly used petroleum casing pipe material it is produced according to the api 5ct standard and used in a variety of well types both oil and natural gas the main purposes of using casing or tubing are to protect the wellbore from collapse and to provide a conduit for well fluids

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web opti torq optimum torque nom wt nominal weight common application casing r95 m65 n80 j55 k55 h40 these are commonly used in wells that do not demand stringent strength and anti corrosion requirements the following are the

descriptions of two grades h40 and k55 h40 api color code 1 black band or none

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web api 5ct j55 k55 casing and tubing have same chemical composition and same yield strength 379 552 mpa with different tensile j55 tensile strength minium 517 mpa which k55 is 655 mpa they are relative lower grade and cheaper than n80 l80 p110

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web jul 28 2021 1 heat treatment psl1 requirements in api 5ct j55 and k55 require delivery in rolled state psl2 requirements in api 5ct j55 and k55 oil casing should be normalized and tempered as a whole 2 tensile test j55 yield strength 379mpa 552mpa tensile strength 517mpa minimum elongation of j55 is 19

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web sourcing from all the good api 5ct casing pipe manufacturers in china enpro is working on providing high quality casing pipe with most competitive price especially for the the grades j55 k55 n80 1 and n80q casing moreover enpro is engaged in providing various premium connection casing pipe for the server working conditions

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web nov 6 2019 j55 casing pipe is an important equipment for oil drilling its main equipment also includes drill pipe core pipe and casing drill collar and steel pipe for small diameter drilling j55 oil casing specifications are mainly 139 7 7 72 177 8 9 19 244 5 8 94 244 5 10 03 244 5 11 05 etc

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web the j55 api casing or tubing is widely used in the extraction of natural gas and coalbed methane and can be commonly found in shallow wells geothermal wells and water wells specifications 1 outer diameter 4 1 2 5 5 1 2 6 5 8 7 7 5 8 9 5 8 10 3 4 13 3 8 16 18 5 8 20 2 wall thickness 5 21 16 13 mm 3

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web casing drill pipe rod specifications page 1 used drill pipe inspection specifications imperial metric g material new pipe premium class class 2 o d nomia weig wall thicknes 12 5 minimum wall 20 minimum wall 30 minimum wall 2 3 8 6 65 0 280 0 035 0 245 0 056 0 224 0 084 0 196 60 3 9 90 7 11 0

api 5ct grade j55 casing tubing j55 octg and linepipe - May 11 2023

web the tubes under specification api 5ctq j 55 are outfitted with varied end connections such as non upset ends or an external upset end the api 5ct grade j55 casing pipe is considered to be a standard or a typical grade for tubes in systems that tend to be relatively shallow say less than 9 000 ft

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web latestedition torsional values for double shouldered connections ht xt and gpds were calculated per a modified form of the equation in api rp7g latest edition make up torque values are based on the lower of 60 of the tool joint torsional yield strength or the calculat ed t3 value 2 17 8 13 4 1 1 2 1 3 8 1 1 4 21 8 2 17 8 1 7

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web specifications outer dimensions 6 0mm 219 0mm wall thickness 1 0mm 30 mm length r1 4 88 7 62m r2 7 62 10 36m r3 10 36 14 63m thread type short round thread long round thread buttress thread j55 casing tubing steel color code a bright green band j55 coupling color code entire green coupling a white band

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web and conductor casing we have a unique range of technologies and integrated solutions series the wedge xp 2 0 offers extreme torque capability mainly for production casing in uncon ventional applications unparalleled product technology h40 j55 k55 m65 c110 p110 c90 1 r95 t95 1 smys ksi group 1 group 2 group 3 group 4

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