

## **Genetic Inheritance Quiz PDF**

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Which genetic disorder is inherited in an autosomal recessiv pattern?					
○ Huntington's disease					
Cystic fibrosis					
Marfan syndrome					
Ouchenne muscular dystrophy					
Which law states that alleles for different traits are inherited independently of each other?					
○ Law of Segregation					
Law of Independent Assortment					
○ Law of Dominanc					
Law of Inheritance					
What is the observable characteristic of an organism called?					
○ Genotype					
○ Phenotype					
○ Alleles					
○ Chromosome					
Which term describes having two identical alleles for a specific gene?					
○ Heterozygous					
○ Homozygous					
○ Dominant					
Recessiv					
What is the basic unit of heredity?					
○ Chromosome					
○ Gene					

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Alleles	
○ DNA	
Which type of inheritance involves both alleles being fully express	ed in a heterozygote?
○ Dominant	
Recessiv	
○ Co-dominant	
Incomplete Dominant	
Explain the difference between genotype and phenotype.	
	//
Describe how a Punnett Square is used to predict genetic outcome	es.
	/
What is genetic drift, and how does it affect populations?	
	//

What is the purpose of a Punnett Square?

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<ul><li>○ To sequence DNA</li><li>○ To map chromosomes</li></ul>
To predict genetic trait probabilities
○ To analyze protein structures
Which of the following is a sex-linked trait?
○ Blood type
<ul><li>Eye color</li><li>Hemophilia</li></ul>
○ Hair color
Which of the following are examples of polygenic traits? (Select all that apply)
Skin color
☐ Height ☐ Blood type
_ Eye color
Discuss the significance of Mendel's experiments with pea plants in understanding inheritance.
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Explain the concept of incomplete dominance and provide an example.



Which processes contribute to genetic variation? (Select all that apply)
☐ Mutation
Genetic Drift
☐ Natural Selection
☐ Cloning
Which of the following are Mendel's laws of inheritance? (Select all that apply)
☐ Law of Segregation
☐ Law of Dominanc
Law of Independent Assortment
Law of Gene Flow
Which tools are used in genetic analysis? (Select all that apply)
☐ Punnett Square
Pedigree Chart
Genetic Drift
☐ DNA Sequencing
Which statements are true about alleles? (Select all that apply)
☐ Alleles are different forms of a gene.
☐ Alleles are located on chromosomes.
An organism inherits two alleles for each gene, one from each parent.
Alleles are only found in sex cells.
Which of the following are characteristics of X-linked recessiv disorders? (Select all that apply)
☐ More common in males
Passed from father to son
Females can be carriers

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☐ Affected females must have an affected father