

Getting Nerdy with Mel and Herdy

GENETICS

STUDY GUIDE

Genetics: Study Guide

Follow the directions for each set of questions.

20. Provide the new strand of DNA for the original strand below.
- 1 2 3 4 5 6
21. Provide the strand of RNA for the original strand of DNA below.

Genetics: Study Guide

Follow the directions for each set of questions.
Match the definition to the correct term.

Term	Definition	
1. Genotype	The physical characteristics that can be observed.	
2. Phenotype	The genetic makeup of an organism, represented by a set of alleles.	
3. Homozygous dominant	The presence of two identical alleles for a trait.	
4. Heterozygous	The presence of two different alleles for a trait.	
5. Recessive	The trait that is masked by the dominant trait.	
6. Dominant	The trait that is expressed in the heterozygous condition.	
7. Punnett square	A diagram used to predict the probability of an offspring inheriting a particular trait.	
8. Allele	A variant form of a gene that is located at a specific position on a chromosome.	
9. Genotype	The genetic makeup of an organism, represented by a set of alleles.	
10. Phenotype	The physical characteristics that can be observed.	
11. Homozygous dominant	The presence of two identical alleles for a trait.	
12. Heterozygous	The presence of two different alleles for a trait.	
13. Recessive	The trait that is masked by the dominant trait.	
14. Dominant	The trait that is expressed in the heterozygous condition.	
15. Punnett square	A diagram used to predict the probability of an offspring inheriting a particular trait.	
16. Allele	A variant form of a gene that is located at a specific position on a chromosome.	

FULLY EDITABLE!

Genetics: Study Guide

Follow the directions for each set of questions.

22. For each genotype indicate whether it is heterozygous (Het) or homozygous (Hom).
- a. Aa _____ b. BB _____ c. cc _____ d. DD _____
e. Ee _____ f. FF _____ g. Gg _____ h. Hh _____
23. For each genotype below determine the phenotype.
If tongue rolling is dominant to not rolling your tongue.
- TT _____ Tt _____ tt _____
24. For each phenotype below, list the genotypes.
If straight hair is dominant to curly hair.
- Straight _____ Straight _____ Curly _____
25. The lady Green Giant is heterozygous for her Green Bean Feet. His wife is recessive for her Yellow Bean Feet. Complete a Punnett square showing the cross and probabilities of their offspring.
- a. What are the offspring genotypes?
- b. What are the offspring phenotypes?
- c. % Offspring green feet
- d. % Offspring yellow feet
- e. Ratio of green:yellow
- f. % Offspring hybrids
- g. Offspring purebred



Unit 5 Genetics And Heredity Study Guide

Liebaert



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