

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.
- Original: $3' \text{---} \text{A T C G T A A} \text{---} 5'$
- New: $5' \text{---} \text{ } \text{ } \text{ } \text{ } \text{ } \text{ } \text{---} 3'$
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 dominant 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 state.
7. Allele	A variant form of a gene that is located at a specific position on a chromosome.
8. Chromosome	A structure made of DNA and proteins that carries genetic information.
9. DNA	The molecule that carries the genetic code, made of two strands of sugar-phosphate and nitrogenous bases.
10. Replication	The process of making a copy of a DNA molecule.
11. Transcription	The process of making an RNA copy of a DNA segment.
12. Translation	The process of making a protein from an RNA message.
13. Mutation	A change in the DNA sequence that can result in a new trait.
14. Gene	A segment of DNA that codes for a specific protein.
15. Protein	A molecule made of amino acids that performs a specific function in the cell.

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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

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Genetics Unit Study Guide Heredity

**James Adams, Maryn Munley, Nathan
Eisenbeis, Caroline Miller, Jesse Shetler**



Genetics Unit Study Guide Heredity:

Genetics Unit Study Guide Heredity Book Review: Unveiling the Power of Words

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