

Genetics Quiz Study Guide

Integrated Science 2

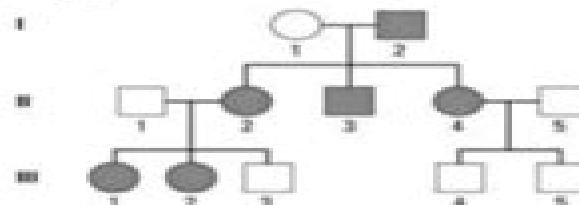
Name:

Period:

1. Describe early ideas about heredity. Include a description of Mendel's experimental procedures, results and conclusions.
2. What was significant about Mendel's work? How did Mendel's experiment contribute to our understanding of genetics?
3. Define the following terms as they relate to genetics: *gene*, *allele*, *dominant*, *recessive*, *homozygous*, *heterozygous*, *genotype* and *phenotype*.
Describe how of Punnett squares are be used to predict inheritance.
4. For peas, round seed shape (R) is dominant to wrinkled seed shape (r). A homozygous dominant plant is crossed with a heterozygous plant. Draw and complete a Punnett square and include the expected percents and ratios for genotype and phenotype of the offspring.
5. Explain sex-linked traits.
6. What gender is more likely to express a sex-linked recessive trait? Why?
7. What is the human genome?
8. Define *monosomy* and *trisomy*.
9. What condition causes Down Syndrome?
10. Explain the basic structure of DNA.
11. What mechanism contributes to variation in a population?
12. What is the difference between chromosomal disorders and genetic disorders?
13. What are dysfunctional genes?
14. What is nondisjunction?
15. Be able to read a pedigree. Example:

Marfan syndrome, a dominant trait, is an inherited condition that affects the connective tissue, resulting in unusually long bones and spinal curvature, as well as vision, cardiac, and respiratory problems. The following pedigree shows inheritance of Marfan syndrome in a multigenerational family. Shaded individuals have the syndrome.

You should be able to label the genotype of all individuals.



- a) What is the genotype of the parents? b) Can you determine individual II-4's genotype? Explain.

Human Heredity Quiz Study Guide

R Bogdan



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