

SECTION 4 - 3

REVIEW AND REINFORCE

Advances in Genetics

◆ Understanding Main Ideas

Answer the following questions on a separate sheet of paper.

1. What are two types of selective breeding, and how do they compare?
2. What is cloning?
3. How is bacteria used in genetic engineering?
4. How is gene therapy used to treat genetic disorders?
5. What is the Human Genome Project?

◆ Building Vocabulary

Match each term with its definition by writing the correct letter in the blank.

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| <p>_____ 6. The process of selecting a few organisms with desired traits to serve as parents of the next generation</p> <p>_____ 7. Crossing two individuals that have identical or similar sets of alleles</p> <p>_____ 8. Crossing two genetically different individuals</p> <p>_____ 9. Organism that is genetically identical to the organism from which it was produced</p> <p>_____ 10. Process in which genes from one organism are inserted into the DNA of another organism</p> <p>_____ 11. Inserting working copies of a gene directly into the cells of a person with a genetic disorder</p> <p>_____ 12. All the DNA in one cell of an organism</p> | <p>a. inbreeding</p> <p>b. clone</p> <p>c. gene therapy</p> <p>d. selective breeding</p> <p>e. hybridization</p> <p>f. genetic engineering</p> <p>g. genome</p> |
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