

Name _____ Class _____ Date _____

Chapter 13

Genetic Engineering

Section 13-1 Changing the Living World (pages 319-321)

This section explains how people use selective breeding and mutations to develop organisms with desirable characteristics.

Selective Breeding (pages 319-320)

1. What is meant by selective breeding? Only animals and plants with desired characteristics are allowed to produce the next generation.
2. Circle the letter of each organism that has been produced by selective breeding.
 a. horses b. dogs c. cats d. potatoes
3. Who was Luther Burbank? He was a selective plant breeder who developed disease-resistant potatoes to help fight potato blight in Ireland, as well as over 800 varieties of other plants.
4. Complete the compare-and-contrast table of types of selective breeding.

SELECTIVE BREEDING

Type	Description	Examples
Hybridization	Crossing dissimilar individuals to bring together the best of both organisms	Disease-resistant Burbank potato
Inbreeding	The continued breeding of individuals with similar characteristics	Maintaining dog breeds

5. Is the following sentence true or false? Hybrids are often hardier than either of the parents. true
6. What two plant traits did Luther Burbank try to combine in his crosses?
 - a. Disease resistance
 - b. Food-producing capacity
7. Is the following sentence true or false? To maintain the desired characteristics of a line of organisms, breeders often use hybridization. false
8. Most members of a breed are genetically similar.
9. What are the risks of inbreeding? There is always a chance that a cross between two individuals will bring together two recessive alleles for a genetic defect.

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Chapter 13 Genetic Engineering Answer

Chapter 13 Genetic Engineering In this chapter, you will read about techniques such as controlled reproduction, DNA manipulation, and the introduction of DNA into cells that can be used to alter the genes of organisms. You will also learn how these techniques can be used in industry, agriculture and

Chapter 13 genetic engineering answer key

Chapter 13 Genetic Engineering Answer Chapter 13, Genetic Engineering (continued) Identifying DNA Sequence Study specific genes Compare genes with other organisms Discover the functions of genes enables researchers to 11. List four "ingredients" added to a test tube to produce tagged DNA fragments that can be used to

Chapter 13 Genetic Engineering Answer Key 1

Chapter 13, Genetic Engineering (continued) Increasing Variation (pages 320-321) 10. Why are biologists interested in preserving the diversity of plants, and animals in the wild Selective breeding would be nearly impossible without the wide. variation found in natural populations. 11. Is the following sentence true or false The genetic ...

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Biology Chapter 13 Genetic Engineering Answer Key

Teaching Resources /Chapter 13 163 Name Class Date Multiple Choice On the lines provided, write the letter of the answer that best completes the sentence or answers the question. 13. Combining the disease-resistance ability of one plant with the food-producing capacity of another is an example of a. genetic engineering. c. hybridization. b. inbreeding. d. gel electrophoresis. 14. The technique ...

Chapter 13 Genetic Engineering Chapter Vocabulary Review

Chapter 13 Genetic Engineering. This genetically engineered plant Glows-in-the-Dark! A genetically engineered mouse that can grow a human ear! 13-1 Changing the Living World Humans use selective breeding, which takes advantage of naturally occurring genetic variation in plants, animals, and other organisms, to pass desired traits to the next generation of organisms. Selective breeding allows ...

Chapter 13 Genetic Engineering - Mrs. Benzing's Classroom ...

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Chapter 13 Answer Read more about transgenic, engineering, organisms, bacteria, pearson and guided.

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Short Answer On the lines provided, answer the following questions. 1. Describe the process of DNA extraction. 2. What is the function of a restriction enzyme? 3. For what purpose is gel electrophoresis used? Short Answer On the lines provided, list the kinds of information that can be found by knowing the sequence of a DNA molecule. 4. 5. 6. Reviewing Key Skills 7. Inferring How are ...

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