

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

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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 Section Review Answers

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### **Chapter 13 Genetic Engineering Section** Chapter 13 Genetic Engineering

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Chapter 13 Genetic Engineering. Section 13-2 Manipulating DNA; 2 Manipulating DNA. Key Concept ; Scientists Use Their Knowledge Of The Structure of DNA And Its Chemical Properties To Study and Make Changes To DNA Molecules; 3 Manipulating DNA. Key Concept (cont.) Different Techniques are used to Extract DNA from Cells, to Cut DNA into Smaller Pieces, to Identify the Sequence of Bases in the ...

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Assignment 7: Genetic Engineering (Chapter 13) DAY 1: Changing the Living World (CA Standards BI 5.c) Read Section 13-1 (all), pages 319-321. In complete sentences, define the following vocabulary words from the section: selective breeding, hybridization, inbreeding. Complete the Section 13-1 Assessment on page 321 (Questions 1-5). Use complete sentences. DAY 2: Manipulating DNA (CA Standards ...

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#### **Prentice Hall Biology Chapter 13: Genetic Engineering ...**

Chapter 13. Genetic Engineering (continued) Identifying DNA Sequence Study specific genes enables researchers to 11. List four “ingredients” added to a test tube to produce tagged DNA fragments that can be used to read a sequence of DNA. a. b. c. d. 12. What does the reaction in the test tube generate when complimentary DNA is made for reading DNA? 13.

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Reviewing Key Concepts 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?

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