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)

- What is meant by selective breeding? Only animals and plants with desired characteristics are allowed to produce the next generation.
- Circle the letter of each organism that has been produced by selective breeding.
  - (a.) horses
- (b) dogs
- (c) cats
- (d.) potatoes
- 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.
- Complete the compare-and-contrast table of types of selective breeding.

#### SELECTIVE BREEDING

Туре	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

- 6. What two plant traits did Luther Burbank try to combine in his crosses?
  - a. Disease resistance
  - b. Food-producing capacity
- Is the following sentence true or false? To maintain the desired characteristics of a line of organisms, breeders often use hybridization.
- 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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