

**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**

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

- Is the following sentence true or false? Hybrids are often hardier than either of the parents. true
- What two plant traits did Luther Burbank try to combine in his crosses?
  - Disease resistance
  - Food-producing capacity
- Is the following sentence true or false? To maintain the desired characteristics of a line of organisms, breeders often use hybridization. false
- Most members of a breed are genetically similar.
- 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.

# 13 Genetic Engineering Section Review Answer Key

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