

GENETICS

LESSON 11: ARTIFICIAL SELECTION

Learning Outcomes

- I can define artificial selection.
- I can explain how artificial selection can be beneficial.

Artificial Selection

- _____

- _____

- allows for the breeding of specific traits within a species
 - dogs – _____
 - cats – _____
 - horses – _____
 - chickens – _____
 - fruits & vegetables – _____
 - grains – _____

Consequences of Selective Breeding

- _____

- sometimes, harmful traits may be overlooked or magnified in this pursuit
 - _____

- _____

- examples of frequency of bad traits becoming greater
 - _____
 - _____
 - _____

Questions

1. For each of the organisms listed below, identify two or three traits that may have been selectively bred for. (Hint: think of what each organism is used for.)
 - a. sheep
 - b. corn
 - c. apples
 - d. mandarin oranges
 - e. cows
 - f. chickens

2. Today, most dogs are used for companionship. However, most breeds were originally bred for a specific purpose. Research online to identify what each of the following breeds of dogs were originally bred for and what traits were bred for.
 - a. Dachshund
 - b. Poodle
 - c. Dobermann Pinscher
 - d. Collie
 - e. Yorkshire Terrier
 - f. Corgi