

Name: _____

Seeing Evolution in Action

Natural & Artificial Selection

Directions: Read through the following scenarios and identify if they are natural or artificial section.

A crop farmer saves seeds from corn plants that produce the largest ears.



Farmers spray herbicide and only resistant weeds survive and spread.



Apple growers use cuttings from trees that produce sweeter fruit to grow new trees.



Flower growers create a new flower variety by cross breeding



Fast growing weeds spread across a farm because they outcompete slower plants.



Insects that blend in with their environment are less likely to be eaten and become more common.



A disease kills many plants, but those with natural resistance survive and reproduce.



A dairy farmer chooses the highest milk-producing cows and raises their daughters for future breeding.



A farmer collects seeds from plants that survived a drought.



Evolution If Then

Directions: To fully understand the role of natural and artificial selection, you need to recognize how populations change over time as traits are selected by nature or by humans. Complete the following “If...then” statements and describe how the organism will change over time as a result of evolution.

1. If a farmer plants seeds from the largest ears of corn each year.... then:
2. If farmers spray herbicide on weeds and a few survive and spread.... then:
3. If apple growers use only their sweetest trees for cuttings to produce more apple trees.... then:
4. If flower growers cross breed thier flowers.... then:
5. If fast growing weeds outcompete slower growing plants... then:
6. If insect blend into their environment making them less visible.... then:
7. If a disease kills lots of plants, but a few survive and reproduce.... then:
8. If a dairy farmer chooses the highest milk-producing cows to keep their daughters for future breeding.... then:
9. If a farmer collects seeds fromn plants that survived a drought... then: