

Name: _____

Date: _____

Speciation. Selective Breeding

Task 1: Match each key term with its correct definition by writing the letter next to the number.

Terms:

1. Speciation
2. Allopatric Speciation
3. Sympatric Speciation
4. Polyploidy
5. Selective Breeding
6. Hybrid
7. Mutagenesis

Definitions:

- A. When new species form in the same area due to genetic changes or reproductive barriers. _____
- B. The process of humans choosing specific traits to breed in animals or plants. _____
- C. The formation of new species. _____
- D. The condition of having more than two sets of chromosomes. _____
- E. A technique that involves using chemicals or radiation to increase mutation rates in organisms. _____
- F. A cross between two species or breeds that often results in sterility. _____
- G. When new species form because populations are separated by physical barriers. _____

Task 2: Fill in the Blanks.

- In _____ speciation, physical barriers like rivers or mountains divide a population.
- _____ speciation can happen without geographic separation.
- A _____ is an organism that has more than two sets of chromosomes, often found in plants.
- A _____ is often sterile because its parents are from different species.
- Farmers use _____ to increase milk production in cows or size in fruits.