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| X`  **Essential Question:**  What role does the environment play in an organism’s survival and reproduction?  Name:  Class:  Period/Block:  Date:  Define: **Natural Selection:**  **Questions/Main Ideas:** **Notes:** | |
| **Darwin’s Natural Selection:  3 Requirements** | 1.  2.  3.. |
| **The 4 main principles  of natural selection** | 1.  2.  3.  4. |
| **Natural Selection Steps** | Step One:  Step Two: |
| **Artificial Selection** | * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** provides variation, **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** select variations that are **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**. |
| **Natural Selection**  **http://store.mentalfloss.com/SNATURAL_375_1.jpg** | INDIVIDUALS THAT HAVE TRAITS  THAT ARE BEST \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_FOR THE  CURRENT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ARE THE ONES THAT SURVIVE TO BREED AND PASS ON THEIR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_TO THE NEXT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| **Evolutionary Fitness** | Evolutionary Fitness: The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that the line of descent from an individual with a specific trait will \_\_\_\_\_\_\_\_\_\_ die out. |
| **Environmental**  **Change** **http://www.niu.edu/clasep/images/climate_change.jpg** | When faced with a change in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, a population of a species can get **MAD**:   * + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to a more favorable location   + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ be adapted   + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **MUTATIONS**  **Selection pressure on a population:** | Changes in the structure of the \_\_\_\_\_\_\_.  Adds \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the population.  May or may not be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Depends on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Gene Flow\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Genetic Drift\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Genetic Drift** | **Variation of alleles in a small population, and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that some genes may or may not be \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_ to the next generation.** |
| **MASTERY QUESTION** | How can a change in the environment initiate a change in a population? |