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| **Cornell Notes** | **Topic/Objective: Natural Selection VS. Selective** | | **Name:** |
| **Breeding** | | **Class/Period:** |
|  | | **Date:** |
| **Essential Question: What is natural selection and how is it related to adaptations?** | | | |
| **Questions:** | | **Notes:** | |
| What are natural changes? | | -There are two \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forces that could \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a population | |
|  | | over \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
|  | | * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ selection | |
|  | | * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ selection | |
|  | |  | |
| What is **sexual selection**? | | - changes a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because mates are \_\_\_\_\_\_\_\_\_\_\_\_\_ about who they will mate with | |
|  | |  | |
| Why do mates with certain | |  | |
| traits have a higher chance | |  | |
| of reproducing? | |  | |
|  | |  | |
| What is **natural** **selection**? | | - A process where \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ organisms that have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | | **adaptations** will \_\_\_\_\_\_\_\_\_\_\_\_\_ longer and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ more, which \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | | on those \_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
|  | |  | |
|  | | Organisms with \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ traits will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and there traits | |
|  | | become \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ common. | |
|  | |  | |
| How can you sum natural | | Natural selection changes a population because “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Selection up? | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.” | |
|  | |  | |
| How can species adapt to | | * **Difference modes of transportation**: Animals may \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_from predators | |
| To protect themselves? | | by being able to \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ away. | |
|  | | * Animals that can’t run, fly, or swim fast enough to get away, have come up with | |
|  | | other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . | |
|  | | * **Mimicry**: when \_\_\_\_\_\_\_\_\_\_\_\_ animal looks like a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ animal. | |
|  | | Batesian  (a good prey item looks like a bad one)  Mullerian  (bad prey items look like each other.) | |
|  | | Types of mimicry: | |
|  | |  | |
|  | | | |
| **Questions:** | | **Notes:** | |
|  | | * **Protection:** Some animals develop *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*to defend themselves, having a | |
|  | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or live together in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | | schools, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | | * **Camouflage**: helps animals \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in with their | |
|  | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
|  | |  | |
| What are manmade | | People change populations for many different reasons, in these ways: | |
| changes? | | * Artificial \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mutation, genetic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | |  | |
| What is selective breeding? | | - Breeding \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ traits in order to \_\_\_\_\_\_\_\_\_\_\_\_ a population | |
|  | |  | |
| How is selective breeding | | - Artificial selection is a \_\_\_\_\_\_\_\_\_\_\_\_\_ of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ breeding, where | |
| and artificial selection | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_change populations by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ that they want to | |
| linked? | | \_\_\_\_\_\_\_\_\_\_\_\_\_ on to the next \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
|  | |  | |
| How is selective breeding | | - \_\_\_\_\_\_\_\_\_\_\_\_\_\_ two of the \_\_\_\_\_\_\_\_\_\_\_\_type of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that have a desired trait | |
| used? | | - cross two \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_types of individuals to get \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ desired traits | |
|  | |  | |
| What is induced mutation? | | - When \_\_\_\_\_\_\_\_\_\_\_\_\_\_ create \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by using \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or | |
|  | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | |
|  | | Ex. To get seedless fruits or hairless animals. | |
|  | |  | |
| What is genetic | | - When humans \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ some of the \_\_\_\_\_\_\_\_\_\_\_ from one \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into | |
| engineering? | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organism | |
|  | | Ex. To get Fungal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_wheat or rice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with Vitamin A | |
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| **Summary:** | | | |
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