 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review the evidence for theories about how a particular species went extinct.



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| Know | |  | Apply  2  1 | |
| Ideas | |  |  |  |
| K1 | Natural selection is a theory that explains how species evolve and why extinction occurs. |  | A1 | Use evidence to explain why a species has become extinct or adapted to changing conditions. |
| K2 | Biodiversity is vital to maintaining populations. Within a species variation helps against environment changes, avoiding extinction. Within an ecosystem, having many different species ensures resources are available for other populations, like humans. |  | A2 | Evaluate whether evidence for a species changing over time supports natural selection. |
| A3 | Explain how a lack of biodiversity can affect an ecosystem. |
| A4 | Describe how preserving biodiversity can provide useful products and services for humans. |
|  | |  |  |  |
| Key words | |
| K3 | **Population:** Group of organisms of the same kind living in the same place. |  | A5 |  |
| K4 | **Natural selection:** Process by which species change over time in response to environmental changes and competition for resources. |  |  |  |
|  |
| K5 | **Extinct:** When no more individuals of a species remain. |  |  |  |
| K6 | **Biodiversity:** The variety of living things. It is measured as the differences between individuals of the same species, or the number of different species in an ecosystem. |  | A6 |  |
|  |
| K7 | **Competition:** When two or more living things struggle against each other to get the same resource. |  |  |  |
| K8 | **Evolution:** Theory that the animal and plant species living today descended from species that existed in the past. |  |  |  |
| 3 | Extend |  |  |  |
| E1 | Predict and explain the changes in a population over time due to natural selection. |  |  |  |
| E2 | Suggest an explanation, based on data, for how a particular evolutionary change occurred. |  |  |  |
| E3 | Evaluate ways of preserving plant or animal material for future generations. |  |  |  |
| E4 |  |  |  |  |
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| E5 |  |  |  |  |
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