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

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| Graph data relating to variation and explain how it may lead to the survival of a species. | | | | |
| Know | |  | Apply  2  1 | |
| Ideas | |  |  |  |
| K1 | There is variation between individuals of the same species. Some variation is inherited, some is caused by the environment, and some is a combination. |  | A1 | Explain whether characteristics are inherited, environmental or both. |
| A2 | Plot bar charts or line graphs to show discontinuous or continuous variation data. |
| K2 | Variation between individuals is important for the survival of a species, helping it to avoid extinction in an always changing environment. |  | A3 | Explain how variation helps a particular species in a changing environment. |
| A4 | Explain how characteristics of a species are adapted to particular environmental conditions. |
|  | |  |  |  |
| Key words | |
| K3 | **Species:** A group of living things that have more in common with each other than with other groups. |  |  |  |
| K4 | **Variation:** The differences within and between species. |  | A5 |  |
| K5 | **Continuous variation:** Where differences between living things can have any numerical value. |  |  |  |
| K6 | **Discontinuous variation:** Where differences between living things can only be grouped into categories. |  |  |  |
| 3 | Extend |  |  |  |
| E1 | Predict implications of a change in the environment on a population. |  |  |  |
| E2 | Use the ideas of variation to explain why one species may adapt better than another to an environmental change. |  |  |  |
| E3 | Critique a claim that a particular characteristic is inherited or environmental. |  |  |  |
| E4 |  |  |  |  |
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| E5 |  |  |  |  |
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