**Option 1**

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| Assessment Task : Science Term 2 2017  How the adaptations of living things allow them to survive in different environments. | | |
| **Class -** | **Name -** | |
| **Date Given -** | | **Due Date -** |
| During Term 2 we have been learning about adaptations and how they assist animals and plants to survive in various environments. We have worked towards developing the following deeper understandings:   * Living things have adaptations that help them survive in their environment. * There are different types of adaptations: Structural (physical features), Functional (how their body works), Behavioural (what they do) and Reproductive (how they reproduce) * Identifying adaptations and explaining how they assist animals and plants to survive in their environment. (Making links between an adaptation and its purpose for survival) * How animal and plant adaptations have inspired human technological advances. * How humans are impacting the adaptations required by plants and animals.   **TASK: Research a living thing (animal or plant) and the Biome in which it lives providing evidence of the adaptations needed to survive there.**  **Create a model or drawing of this Biome and Living Thing.**  To be successful you will need to:   * Create(draw or make a model) and explain an environment (Biome) and its features. * Choose an animal/plant that has several different adaptations that allow it to survive in this environment (Biome). * Explain the adaptations and describe how they allow it to survive in this environment. * Consider how changes to that environment (Biome) might affect the animal/plant. Give at least 3 examples. * Describe how your animal’s adaptations could inspire human inventions. * Complete the provided retrieval sheet to explain your drawing or model.   Please read the attached criteria sheet carefully so that you know how you will be marked. | | |

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| Assessment Task Retrieval Sheet | Name |
| **Animal/Plant**:  Diagram with adaptations explained | |

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| Assessment Task Retrieval Sheet | Name |
| **Biome**  Description:  Locations: (you can include a map here)  Features: | |

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| Assessment Task Retrieval Sheet | Name |
| **Consider how changes to that environment (Biome) might affect the animal/plant. Give at least 3 examples.**  **How could your animal’s adaptations inspire other human inventions to help humans to live in their environment? e.g. the Gecko has self-cleaning skin.. Now scientists are inventing self-cleaning fabric.** | |

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| **Term 2 Science Unit - Adaptations of Living Things** | | | | | **Name:** | | | | |
| **#Research a living thing (animal or plant) and the Biome in which it lives providing evidence of the adaptations needed to survive there.**  **#Short response written test.** | | | | | | | **Date:**  **Date:** | | |
|  | | **A** | **B** | **C** | | **D** | | **E** | |
| **Understanding Dimension** | **Science Understanding**  **Biological Sciences**  Living things have structural features and adaptations that help them to survive in their environment. | -Clear and detailed description of types of adaptation.  -Clear and detailed description of specific Biomes. | -Description of types of adaptation with some explanation.  - Description of types of Biomes with some explanation. | -Simple description of types of adaptation.  -Simple description of types of Biomes. | | -Limited description of types of adaptation.  -Limited description of types of Biome. | | -Required assistance to describe adaptations.  -Required assistance to describe Biomes. | |
| -Comprehensive and insightful explanation of how Adaptations assist survival.  -Comprehensive and insightful explanation of how Adaptations and Biomes are linked. | -Thorough explanation of how Adaptations assist survival.  -Thorough explanation of how Adaptations and Biomes are linked. | -Explanation of how Adaptations assist survival.  -Explanation of how Adaptations and Biomes are linked. | | -Limited explanation of how Adaptations assist survival.  -Limited explanation of how Adaptations and Biomes are linked. | | -Explanation of how Adaptations assist survival was missing or required assistance.  -Explanation of how Adaptations and Biomes are linked was missing or required assistance. | |
| **Science as a Human Endeavour** | Scientific knowledge is used to inform personal and community decisions. | Can identify and describe scientific developments which have been informed by animal/plant adaptations. Provides details about how scientists can use knowledge of animal/plant adaptations. | Can identify and describe scientific developments which have been informed by animal/plant adaptations. | Can identify scientific developments which have been informed by animal/plant adaptations. | | Statements about the links between scientific development and animal/plant Adaptations were limited. | | Statements about how scientists use knowledge of animal/plant adaptations were missing or developed with assistance. | |
| **Skills Dimensions** | **Communicating**  Communicate ideas, explanations and processes in a variety of ways, including multi-modal texts. | Clear, coherent and purposeful use of appropriate scientific language to communicate ideas. | Clear and purposeful use of appropriate scientific language to communicate ideas. | Use of appropriate scientific language to communicate ideas. | | Used aspects of appropriate scientific language to communicate ideas. | | Required assistance and prompting to communicate ideas. | |
| Precise, well detailed, labelled diagram of animal/plant. | Labelled diagram of animal/plant with some detail. | Labelled diagram of animal/plant. | | Diagram or labelling of animal/plant was incomplete. | | Required assistance to/did not produce a labelled diagram of an animal/plant. | |
| Feedback: | | | | | | | |  |  |
| Overall Grade: | |