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| outhern River College | **Year 11 Earth and Environmental Science**  **Task 8: Biodiversity Hotspot Research task** |

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| **Name:**  **Due Date:** | **Weighting 10% of final mark** | **Score: /36** |

Throughout the world there are 36 internationally recognized Biodiversity hotspots. These biodiversity hotspots are classified as having a high number of endemic species which are found no other place in the world.

In this task you will choose one biodiversity hotspot to research and present to the class.

For the Biodiversity hotspot you will need to present

**a)** **Location of biodiversity hotspot**

**b) Climate of the region**

**c) Key species in the hotspot (including naming at least 2 endemic species)**

**d) Description of the key species biology**

**d) Adaptations of species to their environment (try to include more than 1)**

**e) Symbiotic relationships in the biodiversity hotspot (include 1 for parasitism, commensalism and mutualism)**

**f) Threats to the biodiversity hotspot (include more than 1)**

For this assessment you will be creating a powerpoint presentation that you will deliver to the class. To gain full marks you need to include diagrams, images, videos, headings and minimal text.   
Please refer closely to the attached rubric to identify where marks will be allocated.

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| **Elements of Project** | **Exemplary (4 points)** | **Proficient (3 points)** | **Basic (1-2 points)** | **Unsatisfactory (0 points)** |
| **Location** | Map of the location of biodiversity hotspot, references nearby cities, country, and mentions important landmarks and features nearby (for example mountain ranges or rivers) | Map of the biodiversity hotspot included, references nearby cities and country located in. | Mentions nearby cities and country located in. No map included. | Missing |
| **Climate** | Includes annual rainfall per year, seasons, average temperatures and climate phenomena such as snow, hurricanes/cyclones etc. | Includes most climate features but missing one. | Missing more than on climate feature. Description details mainly centers around one category of climate | Missing |
| **Species** | Includes more than 8 species. The 2 endemic species are included and a high level of detail on the chosen endemic species are included. | Lists more than 6 species in the biodiversity hotspot. The 2 endemic species are included. But fails to provide adequate details on the endemic species. | Lists 5 species but fails to provide any details on the species. May include 1 endemic species. | Missing |
| **Adaptations** | Includes 2 adaptations of species to abiotic conditions. Describes in high level of detail abiotic conditions driving the adaptation and the reasons why it assists with greater survival in the environmental conditions. | Includes 1-2 adaptations of species to abiotic conditions. Provides limited details on the abiotic conditions driving the adaptation and assists with survival. | Lists 1-2 adaptations of species to the abiotic conditions of environment. | Missing |
| **Symbiotic Relationships** | Includes 1 example for parasitism, commensalism and mutualism with a high level of detail included on each relationship around benefits and/or harm | Includes 1 example for parasitism, commensalism and mutualism with a low level of detail included on each symbiotic relationship included benefits and/or harm. | Does not includes an example for all 3 symbiotic relationships. Lists the relationships only with no descriptions | Missing |
| **Human Impact** | Includes 2-3 examples of threats to the biodiversity hotspot and the cause. Includes a high level of detail in answer and mentions ways to minimise the harm to the ecosystem. | Includes 2 examples of threats to the biodiversity hotspot and the cause, with some detail included. | Includes 1- 2 examples of threats to the biodiversity hotspot with missing details | Missing |
| **Presentation** | Presentation is exceptional with headings, diagrams and images included to communicate information. | The layout is done well with some headings, diagrams and images included to communicate information. | May have missing headings, too much text or missing images. If images are included they do not communicate information well. | Missing |
| **References** | More than 5 references in correct APA format | 5 references in incorrect format | Less than 5 references in incorrect format | Missing |