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**Year 12 Integrated Science 2020**

**Task 1: Extended Response - Wetlands in Western Australia**

**Name**

**Presentation feedback**

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| **Description** | **3 marks** | **2 marks** | **1 mark** |
| Presentation of content   * PowerPoint * Video * Online website * Poster | 8-10 slides/sections included with key ideas linked to images and sources of information referenced. | 8-10 slides/sections included that shows organisation of ideas in each of the researched content areas. | 7 slides/sections included that is mainly text. |
| Content | Shows a full understanding of the topic | Shows a good understanding of the topic | Shows some understanding of the topic |
| Use of headings and sub-headings | All headings and subheadings used. | Some headings and subheadings used. | Some headings used |
| Delivery | Speaks with fluctuation in volume and inflection to emphasize key points. | Speaks with satisfactory variation of volume and inflection. | Speaks in uneven volume with little or no inflection. |
| Creativity | Creative use of fonts, transitions or animation function that includes a short-embedded clip/s that have been produced by the student | Some attempt to use transitions or animation functions on PowerPoint. | Some relevant images used and an attempt made to use colour, smart art or different fonts. |
| Audience interest | Engaging and interesting all the way through. | Captured interest reasonably well. | Relevant information is included. |
| Engagement | High level of effort. | Satisfactory level of effort. | Little effort shown. |
| **Presentation feedback** | **/21** | | |

**Marking Guide**

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|  | **Item Description** | **Marks** |
| Research Notes | 1. *Wetland description*   Clearly define what constitutes a wetland  Outline the different types of wetlands and what makes them important. | /2 |
| 1. *Ramsar Convention*   Correctly define what the Ramsar Convention is and clarify why is it important? | /2 |
| 1. *Justification*   Identify which Ramsar Criteria your WA wetland qualifies for.  Clearly explain using multiple points how your WA wetlands meets this Ramsar Criteria. | /4 |
| 1. *Map*   Provide a map of your WA wetland site (include geographical coordinates and location of nearest town or major town/city).  Ensure that you clearly delineate the various types of wetlands within your site. | /4 |
| 1. *Key Features*   Analyse and describe the key features of your WA wetland site (biogeography, physical conditions, hydrological values, wetland type). | /8 |
| 1. *Fishbone*   Use the Fishbone Template to classify noteworthy biotic factors (flora and fauna) that inhabit your WA wetland.  For each, describe what makes each one noteworthy. | /6 |
| 1. *Social/Cultural Values*   Describe if the site has any social and/ or cultural values and detail what makes them important. | /4 |
| 1. *Ecological Condition of your WA wetland*   Analyse how current land and water use activities within the Ramsar site and surrounding catchment are affecting the ecological character of your WA wetland. | /6 |
| 1. *Referencing*   Include in-text referencing and provide a bibliography. | /3 |
| **Research Notes Sub Total** | | **/39** |
| Presentation | Presentation of content | /3 |
| Content in presentation | /3 |
| Use of headings | /3 |
| Delivery | /3 |
| Creativity | /3 |
| Audience interest | /3 |
| Engagement | /3 |
| **Presentation Sub Total** | | **/21** |
| **OVERALL FEEDBACK** | | **/60** |

**Part 1: Research Notes**

1. Wetland description (Define what constitutes a wetland and describe the different types of wetlands and what makes them important). (2 marks)

<https://www.dpaw.wa.gov.au/management/wetlands>

* Wetlands are areas either temporarily or permanently covered by water and can be either natural or artificial with water that is still or flowing, fresh, brackish (slightly salty) or salty. This includes marine water which is no more than six metres deep at low tide. (1)

**Wetlands** are areas that are permanently, seasonally or intermittently waterlogged or inundated with water. This water can be fresh or salty, flowing or still. Wetlands occur naturally however. some may be artificially created.

* Wetland types include basin, flat, channel, slope or highland. Less familiar wetland types include **Wetlands** are areas that are permanently, seasonally or intermittently waterlogged or inundated with water.
* Wetlands are important features in the landscape that provide numerous beneficial services for people and for fish and wildlife. Some of these services, or functions, include protecting and improving water quality, providing fish and wildlife habitats, storing floodwaters and maintaining surface water flow during dry periods. These valuable functions are the result of the unique natural characteristics of wetlands. (1)

Critical to survival of birds, provide homes for animals, keep water clean, reduce severity of floods, great for recreational activities, culturally significant, provide educational and scientific research.

1. Describe what the Ramsar Convention is and clarify why it is important. (2 marks)

<https://www.environment.gov.au/water/wetlands/ramsar/criteria-identifying-wetlands>

The Ramsar Convention is an international treaty on the conservation of important wetlands. This was created to ensure our internationally important wetlands are conserved. (1)

The Ramsar Convention's broad aims are to halt the worldwide loss of wetlands and to conserve, through wise use and management, those that remain. This requires international cooperation, policy making, capacity building and technology transfer. It emphasizes the conservation and wise use of wetland ecosystems that are important for biological diversity and human communities. (1)

1. Identify which Ramsar Criteria your WA wetland qualifies for. (1 mark)

Correctly identifies the Ramsar criteria (1)

Clearly explain using multiple points how your WA wetlands meets this Ramsar Criteria. (3 marks)

Provides up to 3 points outlining how the wetland meets this criterion, using clear examples based on evidence (1-3)

1. Provide a map of your WA wetland site (include geographical coordinates and location of nearest town or major town/city). Ensure that you clearly delineate the various types of wetlands within your site.

(4 marks)

Title (1)

Map is to scale, with a scale bar (1)

Clearly shows where the wetland is located in relation to nearby features such as towns (1)

Clearly delineates the different types of wetland within the site (1)

1. Analyse and describe the key features of your WA wetland site, include the following: biogeography, physical conditions (including climate data), hydrological values, wetland type. (8 marks)

Must state one in each of the following and then describe the feature:

Biogeography (2)

Physical conditions (2)

Hydrological values (2)

Wetland type (2)

1. Use the Fishbone Template to classify noteworthy biotic factors (flora and fauna) that inhabit your WA wetland. For each, describe what makes each one noteworthy. (6 marks)

Flora: 3 plants must be stated and a feature about them that makes them important in this wetland (3).

Fauna: 3 animals must be stated and a feature about them that makes them important in this wetland (3).

1. Describe if the site has any social and/ or cultural values and detail what makes them important.

(4 marks)

Explains the social values (1) and describes in detail what makes it important (1).

Explains the cultural values (1) and describes in detail what makes it important (1).

1. Analyse how current land and water use activities within your site and the surrounding catchment are affecting the ecological character of your WA wetland. (6 marks)

States a land activity (1) explains the current land use (1) explains how it is impacting the wetland (1).

States a water activity (1) explains the current water use (1) explains how it is impacting the wetland (1).

1. Bibliography (Referencing) (3 marks)

In-text referencing (1)

Bibliography (1)

Always uses correct conventions for referencing, e.g. APA style (1)

