**GENERAL INTEGRATED SCIENCE– UNIT 1**

**TASK 6 – Human Impacts on Environment Extended Response**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ WEIGHTING: 7.5%**

**Deforestation in our desert?**

Nature’s cycles are impacted by the activity of humans, whether that be from our large-scale production activities like mining and farming, or our seemingly unimportant natural processes like breathing and drinking water. As our understanding of how the world works develops, humans are striving to design action for sustainability, but this is influenced by social, economic, cultural and ethical considerations.

The development of the goldfields created an insatiable appetite for timber. A rapidly growing population soon began to wreak havoc on the environment; by 1900, the timber around Kalgoorlie had been cut out. It was one of the largest industrial uses of timber for fuel anywhere in the world in the twentieth century.

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| **Requirements for assessment** | **Due date** | **Grade** |
| Independent Research Notes |  | /38 |
| Group Project |  | /24 |
| **Final Grade** | | **/62** |

**Your Task**

**Part 1: Independent Research Notes**

* Use the attached graphic organiser to brainstorm what you already know about this topic
* Break down the research questions to guide your research
* Complete independent research to answer each of the questions.

**Part 2: Group Project**

Working in small **groups**, you will have two-weeks to create a **video or podcast** about how **humans** have impacted the **Great Western Woodland**.

**Part 1: Independent Research Notes**

**Use the attached graphic organiser to brainstorm what you already know about this topic**

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| **What is the Great Western Woodland?** |
| **What kind of things would be found in this ecosystem?** |
| **What could be threatening the Great Southern Woodland today?** |
| **What is the history of the area that the Great Western Woodland are in?** |
| **What might the social, economic and cultural beliefs of the Industrial Age be?** |
| **Ideas for conservation: how could you have both mining and a sustainable Great Western Woodland?** |

**Part 1: Independent Research Notes**

**Break down each of the following research questions into 2 or 3 smaller questions.**

**Question 1:** Provide an ecological description of the Great Western Woodlands, including the characteristics of the woodland and some examples of species that live in the area. **(10 marks)**

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**Question 2:** Provide a brief history of how humans have impacted the Great Western Woodland, including both pre-European history and modern history. **(6 marks)**

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**Question 3:** Describe the current threats to the Great Western Woodland. **(6 marks)**

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**Question 4:** Describe what is currently being done to conserve and manage the Great Western Woodland. **(3 marks)**

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**Question 5:** Different communities have different values and beliefs. In the 1800’s, the Great Western Woodlands were jeopardised to build Kalgoorlie and it’s mines. Evaluate how did social, economic and cultural beliefs of the Industrial Age impact peoples’ use of the Great Western Woodland? **(6 marks)**

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**Question 6:** Discuss how the Kalgoorlie citizens of the 1800’s could have had both a healthy woodland and also enough wood to support their growing mining community. **(3 marks)**

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**Part 1: Independent Research Notes**

**Complete independent research to answer each of the research questions.**

Create research notes on either lined paper or a typed word document. Your notes should be no more than **2 pages** long. You must include a bibliography of the different resources you used during your research.

Your Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 2: Group Project**

Working in small **groups**, you must create a **video or podcast** about how **humans** have impacted the **Great Western Woodland**.

In your project, your group must:

* **DESCRIBE**. Provide an ecological description of the Great Western Woodlands, including the characteristics of the woodland some examples of species that live in the area.
* **DESCRIBE**. Provide a brief history of how humans have impacted the Great Western Woodland, including both pre-European history and modern history.
* **EXPLAIN**. Explain what is currently being done to conserve the Great Western Woodland.
* **EVALUATE**. Different communities have different values and beliefs. In the 1800’s, the Great Western Woodlands were jeopardised to build Kalgoorlie and it’s mines. Evaluate how did social, economic and cultural beliefs of the Industrial Age impact peoples’ use of the Great Western Woodland?
* **DISCUSS.** Discuss how the Kalgoorlie citizens of the 1800’s could have had both a healthy woodland and also enough wood to support their growing mining community.

Your video or podcast can be no more than **4 minutes long** and must be created using **Adobe Spark** or **your phones voice recorder**. You will have all of Week 6 in class, as well as time on Wednesday and time our of class to create your project.

Possible contexts to use for your project:

* a documentary on the Great Western Woodland
* a TV or radio interview with locals about their region
* an advertisement for conservationism, tourism or for a mining company

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| **If creating a Podcast…** | **If creating a Video…** |
| Use the voice recorder on your own phone, or a school iPad, to record the script that your group creates.  Make sure that you speak slowly and clearly, and record in a quiet area.  For submission, you can either Airdrop or email the file to Miss. McCauley. | Use the camera of your phone, or a school iPad, to record you footage. Ensure that you speak loudly and clearly and try to avoid windy or otherwise noisy areas.  You will then create an Adobe Spark account and use this website to create your video. In this way, you can access the file at school and at home.  For submission, you can email the link for your video to Miss. McCauley. |

**Group Project Idea’s**

**Final Idea:**

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**Project Management:**

In the space below, create a list of all of the activities you will need to complete in order to finish your project in time.

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| **Task** | **How long will this take?** |
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In the space below, record the role that each group member will play in your assignment. You must elect a project manager; whose job is to ensure you finish on time. For your other roles - who will edit the footage? Who will act in your project? Who will write the script? Group members may have multiple roles, but ensure the workload is spread equally.

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| **Group Member** | **Role** |
|  | Project Manager |
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**Group Project Marking Rubric**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Activity** | **A** | | | **B** | | **C** | | **D** | | | |
|  | **4** | | **3.5** | **3** | **2.5** | **2** | **1.5** | **1** | **0.5** | |
| **An ecological description of the Great Western Woodlands** | Describes the Great Western Woodland, in detail, using appropriate scientific language. | | | Describes the Great Western Woodland using scientific language. | | Briefly describes the Great Western Woodland using some scientific language but lacks detail. | | Briefly describes, with some inaccuracies, the Great Western Woodland, using everyday language | | | |
|  | 4 | 3.5 | | 3 | 2.5 | 2 | 1.5 | 1 | | 0.5 | |
| **How humans have impacted the Woodland.** | Describes, in detail, the history of the area. | | | Describes the history of the area. | | Briefly describes the history of the area but lacks detail. | | Briefly describes, with some inaccuracies, the history of the area. | | | |
|  | 4 | 3.5 | | 3 | 2.5 | 2 | 1.5 | 1 | | 0.5 | |
| **Conservation of the Great Western Woodland** | Describes, in detail, the current conservation efforts using appropriate scientific language. | | | Describes the current conservation efforts using scientific language. | | Briefly describes the current conservation efforts using some scientific language but lacks detail. | | Briefly describes, with some inaccuracies, the current conservation efforts using everyday language | | | |
|  | 4 | 3.5 | | 3 | 2.5 | 2 | 1.5 | 1 | | 0.5 | |
| **Social, economic and cultural beliefs of the Industrial Age impact peoples’ use of the Great Western Woodland?** | Presents clear and logical arguments that are supported by evidence. | | | Presents arguments or statements that are not well-supported by evidence. | | Presents statements of ideas with some development of an argument. | | Presents statements of ideas with limited development of an argument. | | | |
|  | 4 | 3.5 | | 3 | 2.5 | 2 | 1.5 | 1 | | 0.5 | |
| **How have healthy woodland and growing mining community.** | Presents clear and logical arguments that are supported by evidence. | | | Presents arguments or statements that are not well-supported by evidence. | | Presents statements of ideas with some development of an argument. | | Presents statements of ideas with limited development of an argument. | | | |
|  | 4 | 3.5 | | 3 | 2.5 | 2 | 1.5 | 1 | | 0.5 | |
| **Contribution to group.** |  | | |  | |  | |  | | | |

**General Comments: /24**

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