**Year 9 Geography- Changing Biomes**

Since the 1950’s human population has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This has had a significant impact on the world’s Biomes and food production has increased by \_\_\_\_\_\_\_%. There have been many positive changes such as:

1.

2.

However, there have been some negative impacts such as loss of B\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and degradation of land and water. With an expected population of \_\_\_\_\_\_ billion by 2050, more sustainable practices need to be found.

**Forest biomes -page 76 of text**

Question 1: Why are forests important? 3 reasons

1.

2.

3

Question 2: Why do we clear forests?

1. 2. 3.

4. 5.

**Question 3** Complete the following table with a partner. Be sure to research carefully and cross check your sources. Useful site http://www.worldwildlife.org/threats/deforestation

|  |  |  |
| --- | --- | --- |
| Agriculture | Location 1 –Amazon rainforest | Location 2- Indonesia |
| Type of agriculture | Eg Cattle ranching | Palm Oil production |
| Impacts such as loss of biodiversity, habitat loss and water pollution ( include statistics) |  |  |
| How can these negative impacts be managed |  |  |

**Class discussion: Are these types of agriculture sustainable? Why/Why not? Notes**

**Question 4 -In your books: Answer Questions 1-5 from page 79 of your text.**

**Question 5- define the following terms in your book: sustainable, degradation, plantation**

**Question 6 - Human alteration to Biomes: Liverpool plains Food bowl V Mining of Coal**

The Liverpool plains has some of the best and most productive land in the country. It is our national food-bowl and has significant underground water resources. It is also a refuge for unique animals such as the Koala. The Shenhua Watermark coal mine is a proposed coal mine in the Liverpool plains located 25km south east of Gunnedah.

|  |
| --- |
| **Your task: To research and write a half page news article about how a proposed Mine could impact on this area.**  |

* Be sure to mention what is being mined
* Potential impacts
* Future/Solutions

A good starting point is <http://www.lockthegate.org.au/gunnnedah_liverpool>

**OR**

Alternative task – Prepare a persuasive protest advertisement and a bumper sticker.

**Question 7- Biomes provide us with fibres such as cotton**

|  |
| --- |
| **Research the impacts of growing cotton globally** |

-Provide 5 surprising facts and select 8 images to use in a photo essay about cotton growing.

Be sure to show the environmental impacts and include at least TWO successful strategies to minimise environmental impacts

* Include sources for all your statistics.

**Extension activity: Find one article about the Adani coal mine. Complete a right angle thinking diagram and a two minute speech about why it should/should not go ahead.**