**Photosynthesis Research Letter**

Oh no! The vampires have taken over the world! With this new power in government, they want to enact a new law **banning the sun and photosynthesis** on planet earth. It is up to you to use your knowledge of photosynthesis and **research skills** to write a letter to President Dracula defending one reason that photosynthesis is important to the existence of the human species. Your letter should be **at least 1 page double spaced** with standard Microsoft word fonts and margins. Additionally, your letter should be formatted to include the following components:

* Opening paragraph
  + What topic are you defending?
  + What are your arguments going to be?
* Body of letter
  + If photosynthesis were to be taken away, how would your topic be negatively affected?
  + What would this mean to the human species?
* Closing paragraph
  + Restate reasons why photosynthesis and the sun cannot be banned
  + What is the human species currently doing to improve in this topic?

**Topics:**

1. President Dracula, without photosynthesis we wouldn’t have any food to eat!
2. President Dracula, without photosynthesis we wouldn’t have any fuels to do anything!
3. President Dracula, without photosynthesis we wouldn’t have any building materials to use!
4. President Dracula, without photosynthesis our entire environment would fall apart and the seas and atmosphere will suffer!

**Resources:**

You may use any **credible** resources that you may find. If you have a question about whether or not a source is reliable, please ask Mr. Tran. An example of a good credible resource to use in your paper is below:

<http://bioenergy.asu.edu/photosyn/study.html>

**Rubric for Photosynthesis Research Letter**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria** | **5** | **4** | **3** | **2** |
| **Spelling and Grammar** | There are **no grammatical mistakes** on the letter | There are **1-2 grammatical mistakes** on the letter | There are **3-4 grammatical mistakes** on the letter | There are **5 or more grammatical mistakes** on the letter |
| **Opening Paragraph** | Opening paragraph is **engaging** and introduces your topic and arguments for why the sun should not be banned | Opening paragraph is somewhat **engaging** and introduces your topic and arguments for why the sun should not be banned | Opening paragraph introduces your topic and arguments for why the sun should not be banned | Opening paragraph fails to introduce your topic and arguments for why the sun should not be banned |
| **Body Paragraph(s)** | The effects of a ban on the sun and photosynthesis on your particular topic is **clearly** articulated and explained with **examples** | The effects of a ban on the sun and photosynthesis on your particular topic is **partially** articulated and explained with **examples** | The effects of a ban on the sun and photosynthesis on your particular topic is **vaguely** articulated and explained with few **examples** | The effects of a ban on the sun and photosynthesis on your particular topic is **not** articulated nor explained with **examples** |
| **Closing Paragraph** | Arguments about why the sun and photosynthesis cannot be banned are **restated**. What humans are doing to **improve** is explained with examples | Arguments about why the sun and photosynthesis cannot be banned are **restated**. What humans are doing to **improve** is explained with limited examples | Arguments about why the sun and photosynthesis cannot be banned are **restated**. What humans are doing to improve is mentioned | Arguments about why the sun and photosynthesis cannot be banned are **restated**. |

Total Score\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ out of 20