**Unit 4 Assessment**

**Bacteria and Virus Brochure**

Students must develop a trifold brochure that could be provided to high school students at HKHS. Students may use the Microsoft Publisher software to create this brochure. The brochure must be neatly and professionally completed. This brochure must use the following format:

Page 1 (Cover): Must include title and picture

Page 2 (Inside Front Cover): Students must define and describe the characteristics of viruses and bacteria.

* Are they alive?
* What characteristics of life do they have?
* Where are they found?

Page 3 (Next Page): Compare and contrast structure and size of bacteria and viruses. Students must be specific.

* Describe shape of each.
* Describe parts of each.
* Describe size of each. Use analogy to emphasize difference in size between bacteria and virus.

Page 4 (Next Page): Students must describe how bacteria and viruses reproduce and how they are transmitted.

* Describe the reproductive cycle of each microorganism
* Discuss the survival criteria (e.g., Can they survive outside a host?, Do they require a water environment?).
* Forms of transmission

Page 5 (Next Page): Students must describe the treatment and prevention of infection, including the use of antibiotics, vaccines, and probiotics as well as sanitary practice.

* Which microorganisms can be treated with antibiotics?
* What are vaccines and why should they be used?
* Why are probiotics used?
* What sanitary practices prevent infection?

Page 6 (Last Page): Last page must include name, period, and class and bibliography. Three sources must be included in a bibliography.

* Students must use APA format for bibliography and citations.
  + Sources must be cited in brochure (Author, Year).
  + For example, bacteria reproduce through binary fission (Miller-Levine, 2007)
* Project should be creatively designed to capture student’s attention.
  + Pictures or illustrations must be included.

**PLEASE USE THE ABOVE CHECKLIST AND THE RUBRIC AND ON THE BACK OF THIS PAGE TO GUIDE YOUR WORK. THIS RUBRIC IS WHAT WE WILL USE TO EVALUATE THE ACCURACY AND QUALITY OF YOUR BROCHURE.**

**Grading Rubric for Bacteria and Virus Brochure Assessment**

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| --- | --- | --- | --- | --- | --- | --- |
| **CATEGORY** | **(4) Exceeds Standard** | **(3) Standard** | **(2) Approaching Standard** | **(1) Below Standard** | **(0) No Attempt** | **Score** |
| **Attractiveness & Organization**  **(Organization)**  **Weight: 10%** | The brochure has exceptionally attractive formatting and well-organized information. | The brochure has attractive formatting and well-organized information. | The brochure has well-organized information. | The brochure's formatting and organization of material are confusing to the reader. |  |  |
| **Content - Accuracy**  **(Ideas)**  **Weight: 60%** | The brochure has all of the required information (see checklist) and some additional information | The brochure has all of the required information (see checklist). | The brochure has most of the required information (see checklist). | The brochure has little of the required information (see checklist). |  |  |
| **Writing Mechanics and Format**  **(Conventions)**  **Weight: 10%** | All of the writing is done in complete sentences. Capitalization, grammar, and punctuation are correct throughout the brochure. Formatting completed according to instructions. | Most of the writing is done in complete sentences. Most of the capitalization, grammar, and punctuation are correct throughout the brochure. Formatting completed according to instructions. | Some of the writing is done in complete sentences. Some of the capitalization, grammar, and punctuation are correct throughout the brochure. Most formatting completed according to instructions. | Most of the writing is not done in complete sentences. Most of the capitalization, grammar, and punctuation are not correct throughout the brochure. Formatting has not been completed according to guideline |  |  |
| **Graphics/**  **Pictures**  **Weight: 10%** | The graphics match the text and there is a good mix of text and graphics. | The graphics match the text, but there are so many that they distract from the text. | The graphics match the text, but there are too few. | The graphics do not match the accompanying text or appear to be randomly chosen. |  |  |
| **Sources:**  **Weight: 10%** | There are many citations and more than 3 sources in the bibliography (APA format) on the brochure. There are inconsequential errors with the APA format. | There are some citations and at least 3 sources in the bibliography (APA format) on the brochure. There are a few errors with the APA format | There are a few citations and 1-2 sources in the bibliography (APA format) on the brochure. There are some errors with the APA format. | Incomplete citations and bibliography are listed on the brochure. APA format is not used for sources. |  |  |