**Science 8**

**Life Science Project**

**Vaccinations, Antibiotics, & Epidemics Jigsaw Puzzle**

**Driving Question:** Can you teach others about your area of expertise?

**Learning Outcomes:**

* Communicate ideas, findings, and solutions to problems, using scientific language, representations, and digital technologies as appropriate.
* L3 ~ I can:
  + understand how vaccinations can control the spread of disease.
  + explain how overuse of antibiotics can create "superbugs".
  + know what epidemics and pandemics are and how they differ.

**Project Task:** In a group of 2, you will research your given topic (vaccinations, antibiotics/superbugs, or epidemics/pandemics), and then present the information to your classmates.

**Process:**

1. Research your chosen topic; remember to use the CRAPP test and cite all references. Your guiding questions are:

* What are vaccinations? How do they work in the body? How do they help us? What is an example of a vaccine you find interesting?
* What are antibiotics? How do they work in the body? How do they help us? What are superbugs and how are they created? What is an example of an antibiotic and a superbug?
* What is an epidemic? What is a pandemic? How are they similar and different? What is an example of an epidemic and/or a pandemic?

1. Present your information to your classmates (in small groups made up of 1 pair from each learning outcome). Your presentation should be a 2 – 3 minute explanation that could include a PowerPoint, a poster, a video, etc.
2. Self-Assess yourself by answering the attached questions and using the two core competencies we are focusing on: communicating and collaborating.
3. Peer-Assess your classmates' presentations using the attached rubric.

**Hand In Checklist:**

* Research (written document of notes with citations/bibliography)
* Presentation (to at least 2 other groups)
* Self-Assessment
* Peer Assessment (x2)

**Timeline (estimated):**

1. Research: January 28 and 30
2. Preparation of Presentation: February 3 & 5
3. Presentations: February 7

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**Life Science Project Self-Assessment**

|  |  |  |  |
| --- | --- | --- | --- |
| **COMMUNICATION** | | | |
| **Approaching** | **Developing** | **Mastering** | **Extending** |
| **In familiar settings, I communicate with peers and adults.** | **I communicate purposefully, using forms and strategies I have practiced.** | **I communicate confidently, using forms and strategies that show attention to my audience and purpose.** | **I communicate with intentional impact, in well-constructed forms that are effective in terms of my audience and in relation to my purpose.** |
| Evidence: | | | |
| **COLLABORATION** | | | |
| **Approaching** | **Developing** | **Mastering** | **Extending** |
| **In familiar situations, I cooperate with others for specific purposes.** | **I contribute during group activities with peers and share roles and responsibilities to achieve goals.** | **I can facilitate group processes and encourage collective responsibility for our progress.** | **I can connect my group with other groups and broader networks for various purposes.** |
| Evidence: | | | |

* Answer the following questions in the space provided. Please be thoughtful and detailed.

1. What did you learn during the project?
2. What did you like about the project?
3. What did you dislike about the project?
4. What would you do differently if you did this project again?

Name: \_\_\_\_\_\_\_\_\_\_\_\_

**Science 8**

**Life Science Project Peer Assessment**

**Peer Assessment of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Topic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Fully Meeting Expectations  (A) | Meeting Expectations  (B) | Minimally Meeting Expectations (C) | Not Yet Meeting Expectations (I) |
| Presentation is… | * accurate * clear * well-spoken * detailed * explained in various ways * organized * interesting * appropriate in length * supported by research | * somewhat accurate * somewhat clear * somewhat difficult to understand * read from notes * somewhat detailed * explained in only one way * somewhat organized * somewhat interesting * slightly too short or too long * partially supported by research | | * incomplete or unfinished * inaccurate * unclear * lacking detail * not explained * sloppy * not very interesting * too short or too long * not sufficiently supported by research |

I liked…

I wonder…

**Overall Letter Grade** (please circle one):  **A B C+ C C- I**

Name: \_\_\_\_\_\_\_\_\_\_\_\_

**Science 8**

**Life Science Project Peer Assessment**

**Peer Assessment of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Topic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Fully Meeting Expectations  (A) | Meeting Expectations  (B) | Minimally Meeting Expectations (C) | Not Yet Meeting Expectations (I) |
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I liked…

I wonder…

**Overall Letter Grade** (please circle one):  **A B C+ C C- I**