Socratic Seminar

Today in Biology we will be doing a class discussion of our lab results. We will be looking at pictures, graphs and analyzing elements of our labs and following a socratic seminar type protocol.

**Goals**

By the end of the day you will:

* Pair up with someone in our classroom and practice using academic vocabulary
* Prepare a list of possible contributions to the discussion.
* Participate at least twice in a class discussion about the Cellular respiration lab
* Fill out an exit slip regarding the discussion activity.

**Practice:**

Find a partner from another lab group. You may pick this time ☺ Decide who is partner A and Partner B. While partner A is talking Partner B is listening.

**Partner A:**

Make an observation about one of the containers you set up during your lab:

*During the lab I observed that the container which held \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ produced \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.*

**Partner B:**

Ask you partner how he/she knows this information

**Partner A:**

*I know this container produced\_\_\_\_\_\_\_\_\_\_\_\_\_ because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.*

**Partner B:**

Restate both statements from partner A and ask if this is what they meant.

Now switch, partner A becomes partner B and Partner B becomes partner A. Repeat the following protocol.

**Preparation**

After both partners have shared one observation about their lab, take 7 minutes to create a list of at least 5 statements you can use to participate in the lab. You may use the following sentence frames to help you.

*Observe*

* Looking at the graph, I notice\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* This data point makes me think \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Overall this lab showed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Looking at this picture I see \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

*Explain*

* My data shows\_\_\_\_\_\_\_\_\_\_\_\_\_\_because we did\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* I know I could have obtained better results by\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* I know \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was produced because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* We used \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in our lab because we knew that when combined \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ produce \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* This relates to cellular respiration because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* When I see \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the graph it makes me wonder if/what\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Discussion**

Now we will have a classwide discussion about our lab data and the process of cellular respiration.

Expectations:

* You must participate twice, and you can do any of the following actions below to have your contribution count. See the numbers in ( ) next to the action to see how many points each is worth
  + Ask for clarification, or for someone to repeat their statement (1)
  + Re-state or re-word someone else’s observation or explanation (1)
  + State an observation based on the above sentence frames (2)
  + Ask a question to another student (3)
  + Agree or disagree with a classmate with explanation (3)
  + State an explanation based on the above sentence frames (3)
  + Provide an explanation of the process of cellular respiration using academic vocab (4)

|  |  |  |  |
| --- | --- | --- | --- |
| 0-15 Vocab words | 15-30 Vocab Words | 30-49 Vocab Words | Over 50 Vocab Words |
| 1 point | 2 points | 3 points | 4 points |

* Furthermore, I will be keeping track of the number of vocabulary words that students are using throughout the discussion (repeats are okay). This score will be factored into your overall grade for the discussion. Each Vocab word needs to be used once, and after that I will tally the total number of vocabulary words to calculate a score for the class.
* Talk to each other and not to me, we do not need to raise hands, but be mindful of the time you are using to speak.
* No one can speak more than three times until everyone has spoken once.
* Treat each other with respect.

Exit Slip:

Things that went well during discussion:

Things that did not go so well during discussion:

What could change for the future?