Metabolism Tuva Project

We are going to do a project on analyzing data from the Metabolism Simulation we used during our metabolism unit in Amplify. While we were learning about metabolism we used the simulation to collect a small amount of data to analyze and answer questions about "What was making Elisa sick?" We are now going to delve deeper into the data from the simulation by looking at a larger data set from the simulation.

Go to *https://bit.ly/35huCbY*

Take a look at the metabolism data assigned to you.

1. How many attributes are shown? _____
2. Define metabolism.

   _____

   _____

   _____
3. What kind of analysis can we make from this data?

   _____

   _____

   _____

   _____

4. “Play around” with the data. What did you look at? (What types of data) List it below (x axis vs. y axis).
    - _____
    - _____
    - _____
    - _____
    - _____
5. What type of graph/graphs did you make? (Line graph, bar graph, dot/scatter graph, histogram, box and dot, pie graph) Why? Explain your reasoning.

    _____

    _____

    _____
6. What did you notice in the data that you looked at? Were there any patterns or anything that surprised you? Explain.

    _____

    _____

    _____

    _____

    _____
7. Choose **one** of the data pieces you just looked at in question 4 to investigate further. Using the tool bar on the top right (N|%, Stats, #,), what can

you tell me about the data? Take a picture of your graph and add it to the assignment.

8. Now take a look at another data piece from question #4. Do the same thing as question 7.

9. What can you tell me when you compare the two different pieces from questions 7 and 8? Were your data results similar or different? Why do you think this may be?

10. How does this relate back to the unit on metabolism that we just learned about?

11. What is an outlier? Are there any outliers in the data? What do you think caused this to occur?

12. What kind of results do you think you would see if there was a change in the diet? Explain your reasoning.

13. What is something you would like to investigate next from the data?