**PHASE 3: Reflection**

Please note, Some of these questions are the same, or similar to questions on your other worksheets. If it helps to look at those questions or if they answer them thoroughly enough, you may use them again, or add to them if they need to be precise and descriptive.

Reflection Response

Design Questions

1) Why did you choose your specific object?

2) How did you go about breaking your object into its different shapes? What was easy and what was difficult about this task?

3) Why did you choose your two properties? What do they tell us about your object?

4) Why did you choose your specific starting dimensions? What was easy and what was difficult about this task?

Analysis Response

1) Explain how you came up with each of the different formulas you used. What was easy, and what was difficult about this task?

2) What decisions did you make while drawing your object? Why did you make these decisions? Do you think your drawings are done well enough to use exactly on your poster or will you need to make revisions/updates?

3) What was difficult and what was easy about finding the formulas for your properties? What do the formulas say about each of these properties?

4) Thinking specifically about the two properties you chose, what did you learn about them through your analysis? How do they affect the usefulness of your object? Is your object more useful at a smaller size or larger? Would different functions given you a more useful object?

Reflection Response

You now have an object with various dimensions and properties described. In 1 - 3 paragraphs, explain how your object and the analysis that you did connects with the enduring understanding of this project. “Looking at how patterns and equations govern the changes in an object's dimensions and properties, you will understand that all objects in the world are also governed by similar rules.”