

## Written Explanation for the "Exploring Surface Area of Solids"

Steps to complete the written explanation:

Step 1: Write paragraph one.

Step 2: Draw the net for the new solid on graph paper.

Step 3: Calculate the surface area of the new solid on a separate sheet.

Step 4: Write paragraph two.

Paragraph 1: Introduction

Consider the following:

1. Which solid did you choose to change? Explain how it is being changed.
2. Predict how the change in dimension(s) will affect the surface area of the initial solid. Explain your thinking (i.e., not just "getting bigger" or "getting smaller".)

Paragraph 2: Comparison of your prediction with the actual results

Consider the following:

1. How does the initial surface area compare to the surface area of the new solid?
2. How many times larger or smaller is the surface area of the new solid?
3. Is the change what you predicted?
4. Why were you correct or incorrect?

**\*\*If you are doing distinguished work, your analysis should follow this format and include information with regard to volume.**