

Tools and Resources

(List all Web sites, specific software and hardware needs)

1. Spreadsheet software

Assessment

(How will you assess the students' learning? If you have a rubric, record it here. Be as specific as possible)

Students will be assessed on

- Their ranging and calculation of the data set .
- Their correctness of the mathematical model they derive.
- Their interpretation of the graphs.
- Their explanation of the physical reasons for the differences in the graphs.

Authors (including contact information)

(Record the names and email addresses, if possible, of those who contributed to the development of this lesson sequence)

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Personal Account

(Have you taught this lesson sequence before? What are the great learning/experiences you had?)

Extensions of the activity would include: a) preparing a graph that displays the surface and volume data simultaneously, b) generalizing the analysis of the surface and volume data for different length/width ratios