

Project Calendar

Objective: Design a line of containers for mini-oreos using the following shapes: prism, cylinder, pyramid, cone (*each student in the group will be responsible for one shape*)

Day 1

Bring in several different products - Have students critique each product package. *What makes it a good or bad package?*

Give students entry document - Assign group roles and review project calendar

Discuss - *What considerations do we need to make when designing a package?*

Research each shape - find definitions and examples

Day 2

Warmup 1

Develop surface area formulas from nets of each shape/ create formula sheet

Practice problems with surface area

Begin working on package designs and calculations for surface area & production costs

Day 3

Warmup 2

Packaging Problems Acitivity

Work on designs and calculations

Day 4

Warmup 3

Explore volume - develop volume formulas and add to formula sheet

Work on designs and calculations

Day 5

Warmup 4

Practice with volume

Work on project - calculate volume and number of oreos container can hold

Day 7

Finish project report

Get ready for presentations

Day 8

Project Due

Presentations

Day 9

Test