

Solids Dig Fab Mini PBL Pacing Guide

PBL Groups: (Date TBD)

- Mini PBL groups created

Week 1:

- Hook Activity - M & M Challenge
- Mini PBL Rubric and Pacing Guide Review
- Contracts written and approved by teacher** _____
- Volume of Prisms and Cylinders
- Volume of Pyramids and Cones
- First Draft of Container, including net
- Assigned mathematical applications and calculations of volume of prisms, cylinders, pyramids and cones approved by teacher** _____

Week 2:

- Product Design using 3D design software
 - Design must include accurate description including classification, dimensions, faces, vertices.
 - Design must be at least 64 cubic inches in size
 - Accurate calculation of volume using formulas
 - Product Design approved by teacher** _____
- Volume and Surface Area of Spheres -Mathematical application and calculations approved by teacher** _____
- Prototype Begun

Week 3:

- Prototype Completed
 - Prototype constructed to meet design specifications
 - Prototype includes design elements using laser cutter or vinyl cutter
 - Prototype approved by teacher** _____
- Culminating Event- Presentation of products and "Candy Bar" Celebration