



Lesson: Could you Carry the Candy??

Lesson Topic: Density -- different materials in the same containers can have very different weights

- **Student Learning Objectives:** understand how the same quantities of materials differ in weight, graph volume and mass to understand density, observe how different numbers of items can occupy the same space
- **Lesson Procedures:** think about the different materials and how their surface areas interact with each other to affect how many can fit in each container, graph the mass (x-axis) versus volume (y-axis), divide mass by volume to calculate density

Materials:

- marshmallows, M&Ms, gummy bears, scale, containers, Google Sheets

Questions:

- What volume of (insert material type) would be needed to achieve a given mass of that material?
- Why do some materials weigh more than others?
- How many materials are in the estimation jar?

Debrief/Share:

- Was anyone's prediction correct?
- What was a cool observation that we saw?
- Any more reflections?