



## SfS Away from the Classroom!

### P17: Introduction to Density (Recommended for Grades 3-5)

Please use the following resources to learn about basic density.

#### Watch these Videos:

[https://www.youtube.com/watch?v=eQuW8G2QV\\_Q](https://www.youtube.com/watch?v=eQuW8G2QV_Q) and <https://www.youtube.com/watch?v=Z50jEi1igNQ>

#### Answer these questions:

- Does weight or shape determine if an object sinks or floats?
- What is density?
- In the second video, why does the grape float on top of the syrup?

#### Activities:

Follow these directions to observe the density of household objects compared to water. Please note: this should be done outside, in a bathtub, or in a sink.

You will need:

<ul style="list-style-type: none"><li>• 8 objects that won't get ruined in water</li></ul>	<ul style="list-style-type: none"><li>• Large container or pot</li><li>• Water</li></ul>
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Do you think your object will sink or float? Make a chart to record your data!

1. Fill the container  $\frac{3}{4}$  of the way with water.
2. Place each object on top of the water, one at a time.
3. Does the object float or sink? Does that mean it is more or less dense than water?

#### Make observations & use Claims, Evidence, and Reasoning!

1. **Claim:** Items can be the same size but have different densities.
  - **Evidence:**
  
  - **Reasoning:**
2. **Claim:** Objects that are denser than water sink.
  - **Evidence:**
  
  - **Reasoning:**