

Name: _____

Grade: _

Using our data to look for patterns

Use the data table for the liquids that we compared last week.

1. Using the mass per ml of each substance, arrange the substances in order from highest to lowest by filling in the table below:

Liquid	Mass per ml	How the golf ball behaved (floated or sank)

2. Between which liquids did the golf ball behavior change from floating to sinking in a liquid? Why did the golf ball float in some of the liquids and sink in others?

3. A rubber ball has a mass of 54 kg and a volume of 62.9 cm^3 . What is the mass of 1 ml of this object? ($1 \text{ cm}^3 = 1 \text{ ml}$)

4. Which liquids do you think that the rubber ball will float in? Why?