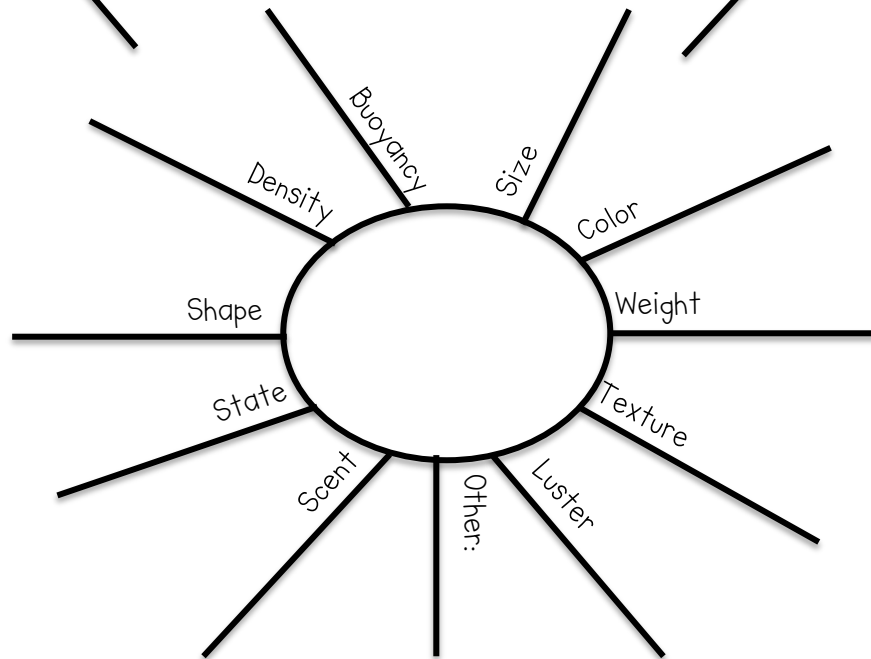
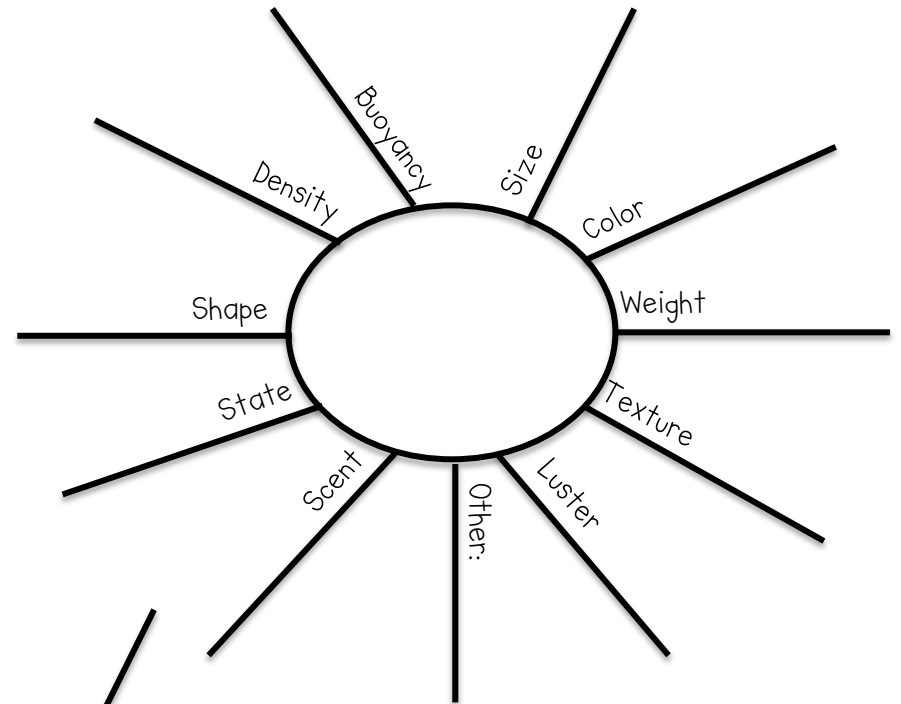
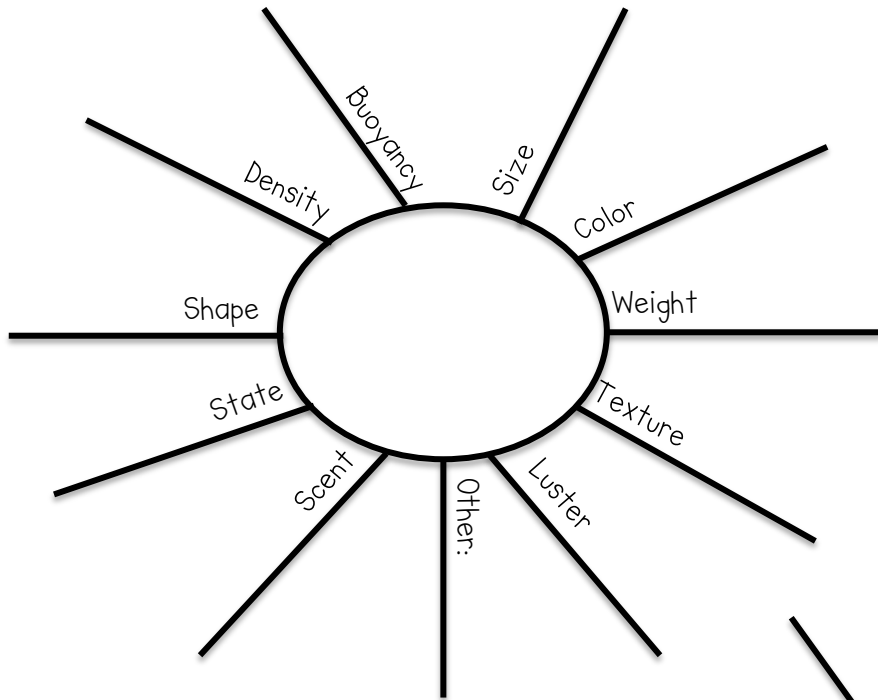


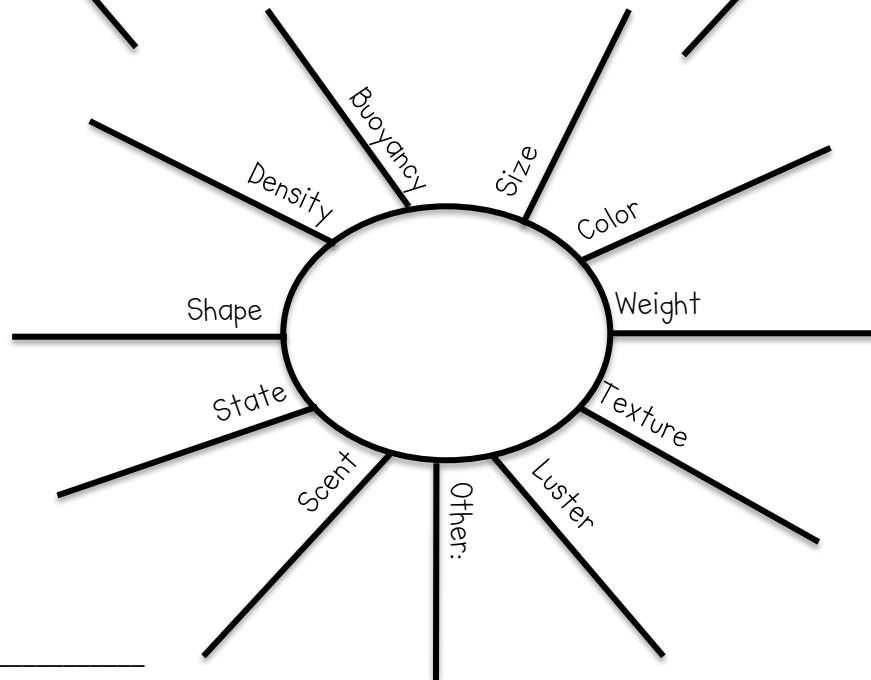
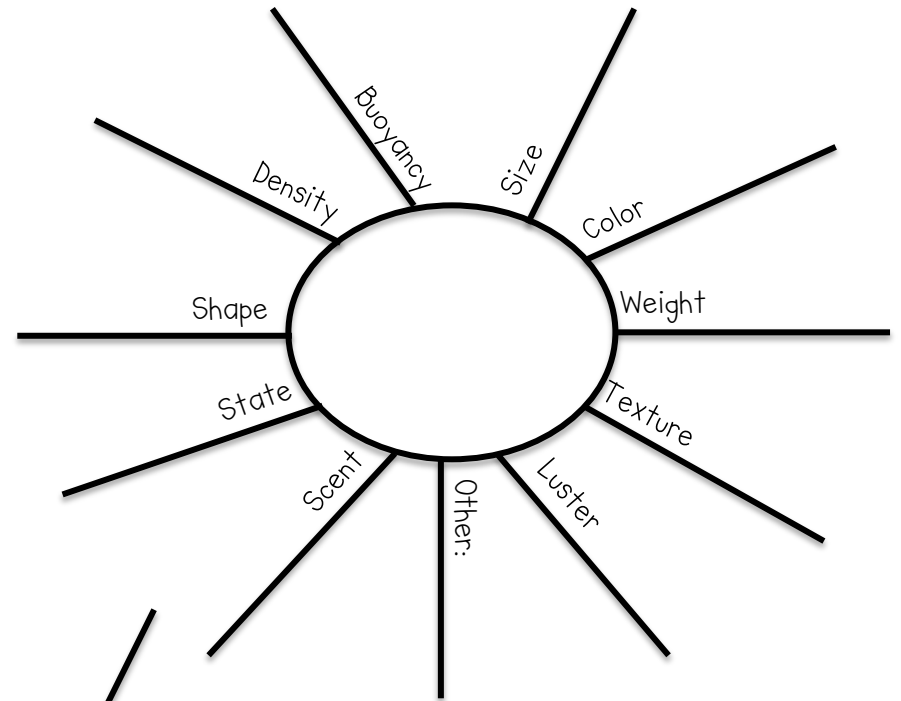
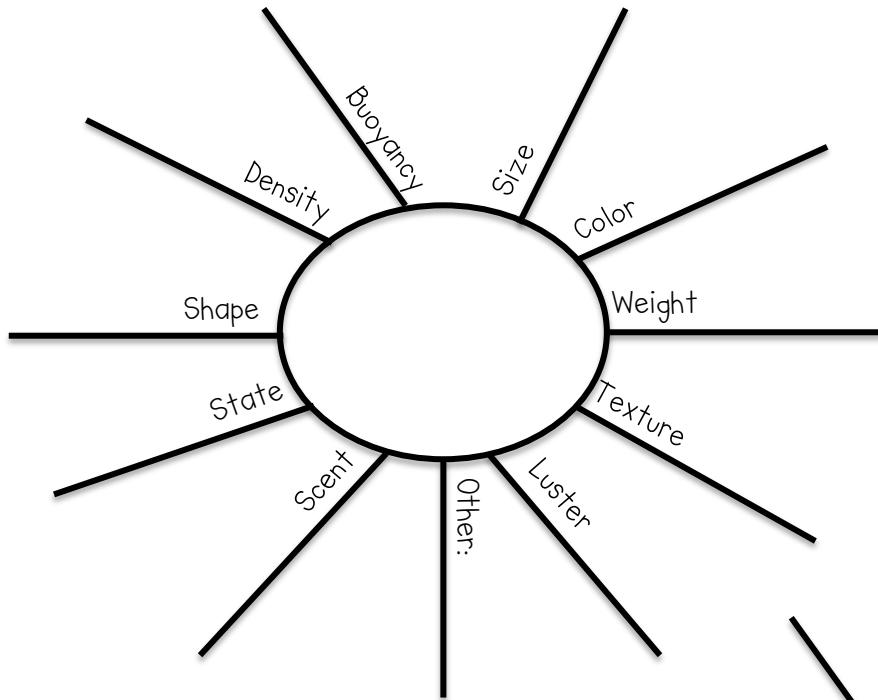
# PHYSICAL PROPERTIES OF MATTER



Name \_\_\_\_\_

Date \_\_\_\_\_

# PHYSICAL PROPERTIES OF MATTER



Name \_\_\_\_\_

Date \_\_\_\_\_

# DENSITY CUBE LAB INSTRUCTIONS

On your table your team has a selection of density cubes. They are called this because, although they are the same size, their density is not the same. In addition, you have a scale, a booklet with a chart, an empty plastic container, and some paper towels. Your job is to solve the mystery of what each cube is made of by observing the physical traits of each cube and recording your data on the graphic organizer.

Properties	What to do?
Size	Use the ruler to measure one side of the cube. Write the answer with $\text{cm}^3$ after the numeral.
Color	Describe the color of the substance.
Weight	Weigh the cube on your scale in grams (g) and ounces (oz).
Texture	Describe how the substance feels.
Luster	Describe how shiny or dull the cube looks.
Buoyancy	Tell if the substance sinks or floats in water.
Shape	Describe the shape of the substance.
State	Describe the state of the matter (solid, liquid, gas).
Scent	Describe how the substance smells.
Density	Based on your observations, write down the most probable density of your substance.
Other	Record any other descriptions of the substance.

**WRITE THE NAME OF  
THE SUBSTANCE IN  
THE CENTER CIRCLE.  
ONCE YOU ARE SURE  
IT IS CORRECT.**

**Hint:**  
Use the chart in the  
booklet to help you solve  
the mystery. The more  
the cube weighs, the higher  
the density will be.  
(Density = mass/volume).