**Research Questions**

1. **What is density?**
2. **What is mass?**
3. **How do you calculate density?**

**Hypothesis: On your paper use your prior knowledge hypothesize the order from most to least dense.**

**If we put all of the substances in a graduated cylinder, then we would see that the order from most to least dense is \_\_\_\_\_, \_\_\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_\_\_, \_\_\_\_, \_\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, & \_\_\_\_\_.**

**Reflection Questions**

1. **You made a prediction based on some property of the liquid. How accurate were your predictions? Why do you think there were errors in your predictions?**
2. **Which liquid in our class tower has the greatest density? What did you see in the experiment that supports your statement? Why did this happen in your experiment?**
3. **Which liquid in our class tower has the least density? What did you see in the experiment that supports your statement? Why did this happen in your experiment?**
4. **Ice in a solid. Is ice more or less dense than water? How do you know?**
5. **Think about what you see when you watch a lava lamp. Does the lava in a lava lamp change? How do you know?**
6. **Look at the picture. There are items that have been dropped into to tower. What statement about density could you make about the ping pong ball?**
7. **What statement about density could you make about the popcorn kernel?**
8. **To the right is the Earth and it’s layers. Thinking about the lab we just did why do you think the Earth has layers**