Today, you’re going to review some things about density and then complete some practice problems.

First, [watch this Brainpop video](https://www.brainpop.com/science/matterandchemistry/measuringmatter/). You’ll have to log in.

Username: swiftcreekmiddle

Password: wolves

After you watch, complete the following questions on your own sheet of paper:

1. How can you use water displacement to find the volume of an irregularly shaped object?
2. Calculate the density of these objects using the formula D = M / V. SHOW YOUR WORK!

|  |  |  |  |
| --- | --- | --- | --- |
| Object | Mass | Volume | Density |
| Corn Syrup | 70g | 50mL |  |
| Wood | 7g | 100 cm3 |  |
| Mercury | 408g | 30 cm3 |  |
| Plastic | 46.5g | 50 cm3 |  |

1. If the density of water is 1.0 g/cm3 , which of the objects in the chart above would float in water and why?
2. If a 50g object is placed in a graduated cylinder with water and the water level rises 10 mL, what is the density of that object?
3. Samples of three unknown liquids have been obtained. Calculate the density of each. Show your work! –

Sample A has a mass of 24.0 g and a volume of 6.0 ml.

Sample B has a mass of 12.0 g and a volume of 6.0 ml.

Sample C has a mass of 12.0 g and a volume of 3.0 ml.

Next, watch this [video](https://www.youtube.com/watch?v=FSyAehMdpyI), an introduction to chemistry. It’s interesting, I promise. As you watch, complete the following questions.

1. What are the parts of the atom?
2. The number of \_\_\_\_\_\_\_\_\_\_ in an atom tell you what type of atom it is.

When you’re finished, choose videos to watch from the SciShow channel. You can pick whatever you want. Tell me what you watched, why you picked it, and three things you learned from one of the videos.