[an error occurred while processing this directive]

Activities

Float or Sink?

Name: _____ Date: _____

If an object is denser than the liquid it's in, it sinks. If it's less dense, it floats. In this Planet Diary activity, you'll find the density of virtual materials to predict if they'll float or sink.

Directions

- Go to Float or Sink? from Explore Science. Notice the "materials" in the box. In this activity, you'll calculate the density of each material to predict whether or not they'll float. Choose any material to begin. Drag it to the scale. Record its mass in the table in the Workspace. To find its volume, drag and drop it into the graduated cylinder next to the scale. Record its volume on the table.
- Use a calculator to find its density. (Density = Mass/Volume.) Round to tenths and record the number on the table.
- Set the density of liquid in the pail on the left by moving the slider to 1.0 g/cc (1cc = 1 mL). Is the material's density greater or less than 1.0 g/mL? Will it sink or float? Make your prediction in the last column of the table. Then drag the material out of the graduated cylinder and into the pail of liquid. Observe what happens. Was your prediction correct?
- Return the first material to the box. Repeat the steps above for the remaining materials.

Workspace

Material	Mass (g)	Volume (mL)	Density (g/mL)	Sink or Float?
Purple triangle				
Red/black rectangle				
Red oval				
Blue square				
Green triangle				
Gray triangle				
Red square				
Pink rectangle				
Purple oval				
Yellow rectangle				

Copyright © Savvas Learning Company LLC. All Rights Reserved
Privacy Policy Terms of Use Rights and Permissions

Find us on Facebook Follow