

## **DD** Different Densities



Lee Yah and Frank found the mass of 30 cc of vegetable oil and 30 cc of corn syrup. They found that the mass of the vegetable oil is 27 grams and the mass of the corn syrup is 41 grams

1. Which is denser, vegetable oil or corn syrup? How do you know?
  
2. Predict what will happen if vegetable oil, water, and corn syrup are poured into the same container. Which liquid will float to the top? Which will sink to the bottom? Draw and label a picture showing the 3 liquids in the container.
  
3. Frank finds the mass of a plastic sphere to be 10 grams and the volume to be 8.5 cc.
  - A. If the sphere is placed in corn syrup, will it sink or float? How did you decide?
  
  - B. If the sphere is placed in vegetable oil, will it sink or float? Explain your reasoning.