

## Density by Stacking Liquids

### Instructions

#### Materials:

50mL of the following liquids:

1. Dark brown Karo syrup
2. Laundry detergent
3. Fabric softener
4. Mineral oil
5. Isopropyl alcohol (rubbing alcohol)

Green food coloring

250-mL Graduated cylinder

#### Set Up:

1. Prepare equal volumes of each liquid.
2. Add couple drops of food coloring to the clear isopropyl alcohol. This will help distinguish between the last two liquids.

#### Demo Procedure:

1. Carefully pour the densest liquid (Karo syrup) into the cylinder.
2. Continue to add the other four liquids in the following order; laundry detergent, fabric softener, mineral oil, and lastly the colored rubbing alcohol.
3. Do not be concerned if the layers mix temporarily into each other. The solutions will separate and settle into five distinctive layers.
4. The graduated cylinder with the stacking liquids can be sealed and use as a classroom display.