

Hands On Liquids Lab

Properties of Liquids Investigation

What's needed:

Different types of liquids in bowls (e.g. water, oil, vinegar, rubbing alcohol)

Clear plastic cups

Food coloring

Measuring cups

Eye droppers

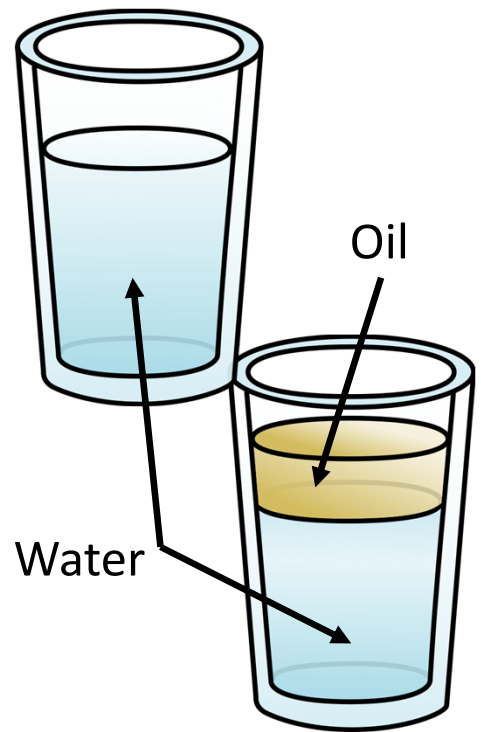
Paper towels

What to do:

- describe the color, transparency, and any other visible **properties** of each liquid.
- add a drop of food coloring to each of the liquids, what happens?
- add a bit of oil to the other liquids

Record, report and explain your findings:

(Use the optional worksheet if preferred.)



Hands On Liquids Lab

Liquid:

Properties:

How it Mixes with
oil? food color?

Teacher Notes:

Begin by discussing the properties of liquids with the students. Ask them what they know about liquids, and write down their responses on the board. Some possible properties to discuss might include: viscosity, density, transparency, color, and odor.

Next, introduce the different types of liquids that the students will be exploring. Make sure that you have enough cups and measuring cups for each student to work with their own liquids.

Ask each student to choose a liquid to work with, and provide them with a clear plastic cup filled with their chosen liquid. OR...set up stations with a liquid at each table along with oil/color/paper towels/bowls/eye droppers etc.

Have students observe their liquid, and record their observations on the worksheet. Ask them to describe the color, transparency, and any other visible properties they notice.

Next, ask students to add a few drops of food coloring to their liquid, and observe what happens. Do the colors mix together easily, or do they stay separate? Record their observations on the worksheet.

Repeat above using a cooking oil.

Have students compare their observations with those of their classmates. Did everyone observe the same properties of the liquids, or were there differences? Discuss why this might be the case.

Assessment:

Assess students based on their ability to accurately observe and describe the properties of the different liquids