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Lava Lamps (2 of 3)

easier to distinguish from the oil. Finally, adding a bit of Alka-Seltzer tablet starts a molecular reaction with the colored water droplets to produce carbon dioxide gas bubbles. These bubbles rush upwards, carrying some of the water droplets with them to the surface. Once at the surface, the carbon dioxide bubbles burst into the surrounding air, and the water droplets sink to the bottom again. This process is repeated as long as some of the Alka-Seltzer tablet present in the container.

#### Student Objectives

- Learn that all things are made up of molecules
- Learn that some molecules interact with each other, but others do not
- Learn about two types of molecular interactions: mixing versus reactions

#### Topics

*Molecules:* All things are made of extremely small particles called molecules. Molecules are so small that a single drop of water contains around 10,000,000,000,000,000 molecules! Molecules have different properties, which dictate how different types of molecules will or will not interact with one another.

*Molecular Interactions:* Molecules may or may not interact with each other. Molecules that don't interact (like oil and water) do not like to be around each other. This is why water and oil will separate. Molecules that do interact can do so simply by mixing or through more complex molecular reactions.

*Molecular Reactions:* Sometimes when two or more molecules interact, they form brand new molecules. In these reactions, the starting molecules are called "reactants" and the new molecule(s) are called the "product(s)". As more and more product forms, the reactants get used up and begin to disappear.

#### Overview of the Lesson Process (about 1 hour)

- Intro (about 10 minutes) Briefly explain the concept of molecules to the class and the types of interactions that will be observed in this activity. DO NOT tell students what will happen when water, oil, food coloring, or Alka-Seltzer are mixed or how the lava lamps will work!
- Small groups (about 40 minutes) Have each mentor in a small group go through the worksheet (introduction for the students). After completing the worksheet, ask students to predict what will happen when three or four things are added together. Can they figure out what will happen when they build the lava lamp? Next, build the lava lamp and discuss how does the end result compares with the students' predictions. Ask the students to explain how the lava lamp works.
- Remaining group questions and cleanup (about 10 minutes).

#### Procedures

Introduction for the students (with worksheet)

1. Mix oil and water together in a bottle. Have the students take turns shaking the bottle to mix the oil and water and observe what happens. Ask to students to draw conclusions about water and oil molecules from their observations.

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### **lava lamp experiment worksheet**

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Describe the behavior you observed when the lava lamp was shaken, and when ... Forces: Student Worksheet Complete this Student Worksheet Experiment 4 dock.. Lava Lamps Activity Worksheet. Safety: Remind students not to put lids on ... It's time to have students experiment with the lava lamps. Make sure each pair.

### **lava lamp lab worksheet**

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