



## Lesson Logistics

### Learning Outcomes

<b>Grades 7-9</b>
Mixtures and solutions
Analysing and interpreting
Fluids

### Class Organization

Divide the students into groups of two or three.

Ensure that each group has a *Student Handout* and a pencil.

### Notes

Students may begin at either Station I or Station II. If there are more groups than setups, students will have to wait.

If using isopropanol at Station III, a well ventilated area is required because of the strong smell. Detailed instructions for the setups are described in *Prep Instructions*.

The setups should not be placed next to each other in order to ensure that groups discover the hidden message independently.

Nearby power outlets are required to plug in the balances.

It is a good idea to locate Station III near a sink to facilitate with the cleanup.

Allow 5 - 10 minutes per station.

### Further Exploration

After the class has completed the three stations, the teacher can explain how each station is related to Archimedes' principle. These explanations may be found in the *Additional Information* and *Introduction* sections.

The groups can discuss the questions in the *Student Handout*, with one student in the group writing out the answers. The entire class can then discuss their answers with the teacher, who can address any misconceptions at this point.

