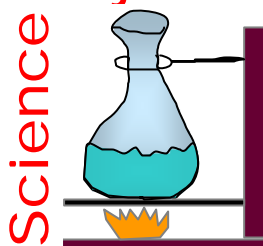


Projects



Bubble Tray

Purpose : Create

giant bubbles

Materials :

- Measuring cups and spoons
- Pril or other dishwashing liquid.
- Glycerin (available at drugstores).
- Tap water.
- A wire coat hanger.
- A shallow tub or tray about 45 cm in diameter (such as a potted-plant drain dish, a pizza pan, or a catering tray).



Procedure: (30 minutes or less)

Mix up a bubble solution of 2/3 cup (160 ml) Pril dishwashing liquid and 3 tablespoon (45 ml) glycerin in 3 L of water. We have found that more durable bubbles form if you let this solution age for at least a day, preferably for a week.

Bend the coat hanger into a flat hoop with the hook sticking up at an angle to serve as a handle. Bubbles will form more consistently when the hoop is as circular as possible. If you wrap yarn tightly around the wire of the hoop, the yarn will absorb the bubble solution, which will make the hoop easier to use.

To do and Notice :

Fill the shallow tray with bubble solution and submerge the hoop in the solution. Then tilt the hoop toward you until it is almost vertical, and lift it from the tray. You should have a bubble film extending across the hoop. Swing the hoop through the air to make a giant bubble.

What is Going On The strong mutual attraction of water molecules for each other is known as surface tension. Normally, surface tension makes it impossible to stretch the water out to make a thin film. Soap reduces the surface tension and allows a film to form.