

# FLOATING WATER

- ◆ 1 clean pail
- ◆ 1 cup Joy, clear Ivory or green Dawn (any of these seem to make the best bubbles)
- ◆ 3-4 tablespoons glycerin (optional, from your pharmacy)
- ◆ 12 cups clean, cold water (10% to 50% more on dry days)

## Directions

1. Measure 12 cups water into the pail. Add 1 cup dish soap.
2. Add the glycerin. In most atmospheres it makes the bubbles more durable by reducing evaporation.
3. Stir, but not too much. You don't want froth on the top because it tends to break the bubbles. It

Make the above soap solution.  
Bend some wire into a loop. Dip it into the mixture.

Look at the skin that is across the loop.  
Blow gently. Watch the skin stretch to make a bubble.

## WHAT HAPPENED?

The liquid soap loosens the attraction between the water molecules. This makes the "skin" stretch and bubbles can be formed.

## NOW...

Create more bubble makers using the suggestions below. Use the basic bubbles solution.

- ◆ **Plastic Six-Pack Holder** - ready made bubble maker. Just dip the six-Pack Holder into the solution and wave it around. Try cutting the Holder apart and use it to make bubbles.
- ◆ **Cookie Sheet Bubbles** - Fill a cookie sheet about  $\frac{1}{4}$ " deep with the Basic Bubble solution. Dip a straw into the solution and pull it out. This creates a small "skin" of bubble film on the end of the straw. Then, holding the tip of the straw just above the surface of the bubble solution, blow a small bubble onto the solution. Carefully keep blowing until the bubble is full size. Then, lift the straw out of the bubble (gently) and repeat.
- ◆ **Be Creative** - Use straws, paper clips, string to create a Bubble Maker. What else can you use?