



## SOAP POWERED BOAT

### WHAT YOU WILL NEED:

A piece of paper or cardboard, A cookie sheet full of water, Liquid dish soap, A toothpick

### INSTRUCTIONS:

1. Cut the paper or cardboard into a boat shape as shown above (A good size seems to be about 2 inches long).
2. Dip the toothpick into the liquid soap
3. Use the toothpick to put soap onto the inside of the notch at the back of the boat.
4. Now carefully place the boat onto the surface of the water

**\*TO DEMONSTRATE THE BOAT AGAIN, YOU WILL NEED TO RINSE OUT THE TRAY TO REMOVE ANY SOAP FROM THE PREVIOUS DEMONSTRATION\***

### WHAT'S HAPPENING?

Soap is a surfactant – that means that it breaks down the surface tension of water. As the surface tension is broken up, it creates enough of a force to push the lightweight boat across the surface.