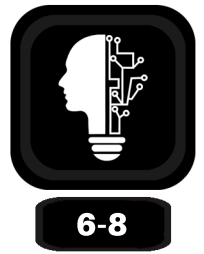


Soap Powered Boat



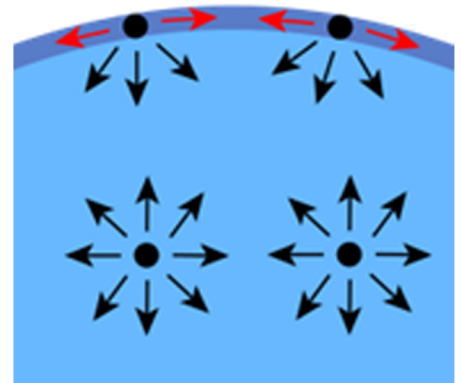
Materials:

- 1 Water Container Per Group
- Cardstock. Carboard
- Scissors
- Liquid Soap



Instructions:

1. Have each student or each group of students cut out a boat shape
2. Float the boat in the container of water
3. Add a small amount of water near the back of the boat and watch what happens



The Science:

Due to the cohesive forces, a molecule located away from the surface is pulled equally in every direction by neighboring liquid molecules, resulting in a net force of zero. The molecules at the surface do not have the same molecules on all sides of them and therefore are pulled inward. This creates some internal pressure and forces liquid surfaces to contract to the minimum area.