



## 0 WOW! Moment— Levity Through Tension

Depending on the size of the opening, how does surface tension keep water from flowing quickly out of a container?

### MATERIALS

- ❖ Bottle of Water
- ❖ Straw
- ❖ Toothpick
- ❖ Pushpin
- ❖ Mason Jar (optional)
- ❖ Mesh or Cheesecloth (optional)
- ❖ Food Coloring (optional)

### GET SET UP

1. Grab yourself a bottle of water and a pushpin.
2. On the side of the bottle of water, near the bottom, push your pushpin through the plastic. What happens? In other words— what DOESN'T happen?
3. With your bottle of water over the sink, unscrew and remove the cap? What happens? Why do you think this happens? Screw the cap back on before all the water flows out.
4. Try something different. Fill a glass with water and color it with food color. Now grab yourself a straw (clear is best) and dip it into the water. Place your thumb over the hole not in the water and remove the straw. What happens? Remove your thumb. What happens?
5. If you have a mason jar, go and get it and cover it with a thin metal mesh or cheesecloth. Secure the cover with a rubber band so it doesn't come off. Fill a large mixing bowl with water and use food coloring to dye the water. Submerge your mason jar in the water and watch it fill up –about halfway is good. Remove the mason jar from the water. Flip the mason jar upside down. What happens?