

SIPHONING

Presented by

BASF
We create chemistry

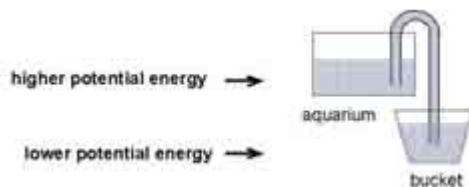
WHAT YOU WILL NEED:

- Two large bowls
- Clear plastic tubing
- Food coloring
- A step stool (or you can use the countertop and floor)
- Safety glasses and goggles



Overview and objective:

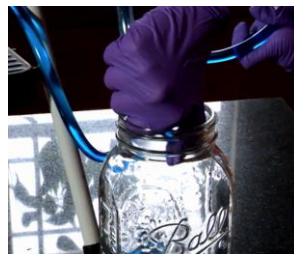
Water flows from higher pressure to lower pressure. When liquid is sucked up the tube, the force of gravity continues to pull the liquid through the tube, even upward, in the effort to flow to the low pressure area.

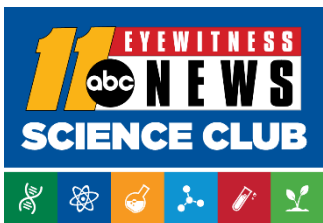


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Process:

1. Put your two bowls on surfaces of differing height (such as floor and countertop)
2. Fill the bowl on the higher surface with water. Optional: add food coloring to better view the flow of water.
3. Fill the tube with water by sucking from the other end. Plug it with your finger once it's filled.
4. Put the plugged end over the lower bowl and let the water siphon out.
5. Try raising the center of the tube over both bowls (making sure the ends of the tube stay in the water!)





SIPHONING

Your water still siphons out, even though it had to go uphill to travel to the lower bowl! Why?

Siphoning works because of the difference in pressure. Water flows from higher pressure to lower pressure, even if it has to travel uphill to get there!

Try this experiment with different widths of tube. Does that have an impact on your results?

Try again by varying the heights of the two bowls. What impact does that have?

Visit us on www.facebook.com/abc11scienceclub and share your results.

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