## What You Need

Can you get a Paper clip to float?

Floating Paper Clip

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- cup of water
- 2 paper clips
- paper towel



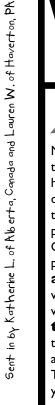
## Science Scoop

If you drop a paper clip in water, the paper clip sinks. If you put the paper clip on a piece of paper towel, the paper towel sinks but the paper clip floats. Water molecules are attracted to each other in all directions, making them "**stick**" together. However, the water molecules at the surface "stick" only to molecules **next to** and **below** them because there are none above them. This makes the surface act as if it had a thin "**skin**." This is called **surface tension**. The paper towel helps you to lower the paper clip onto the surface gently without **breaking** the surface tension. Ifyou are very careful, you can float the paper clip or. the water without using the paper towel.

I Drop a paper clip into a cup of water.What happens?

**2 Tear** off a piece of paper towel

- that is slightly larger than the paper clip.
- 3 Place the piece of paper towel on top of the water.
- 4 Gently place the second paper
- clip on the piece of paper towel.
- 5 Wait a few seconds. Now what happens?



Now it's time for you to **experiment**. What happens if you add a drop of liquid **soap** to the water while the paper clip is floating? Or, what happens if you put the paper clip in another liquid, like vegetable oil or soda water? Choose one **thing** to change (that's the variable), and make a prediction. Then **test it** and send your results to ZOOM.









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