

SfS Away from the Classroom!

C01: Properties of Water (Recommended for Grades 3-5)

Please use the following resources to learn about the properties of water.

Watch this Video: <https://www.youtube.com/watch?v=3jwAGWky98c>

Answer these questions:

- What allows water to have many unique properties?
- How does water move from the roots to the leaves of a tree?
- How do water striders walk on water?

Activity: Follow these directions to explore how water moves through a paper towel by cohesion and adhesion.

You will need:

<ul style="list-style-type: none">• 7 clear glasses or plastic cups• Water	<ul style="list-style-type: none">• 3 different food dyes (we use red, blue, and yellow)	<ul style="list-style-type: none">• 6 paper towels or paper napkins
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1. Line up all of the glasses or cups.
2. Fill every other glass about halfway with water (glasses 1, 3, 5, and 7).
3. Add 2-3 drops of food dye to the glasses containing water.
4. Fold each paper towel* in half, twice. *If using napkins, open up each napkin so that it is a big square and fold in half, three times.
5. Measure the paper towels on the outside of the glasses to make sure they will be covered in the water. Trim paper towels if they are too long or add more water to the glasses if they are too short. (See image above.)
6. Place each paper towel so that each of its ends are in glasses next to each other.
7. Wait 2 hours to see what changes have taken place.
8. Rinse out the glasses, get new paper towels, and repeat using different color combinations!

Make observations & use Claims, Evidence, and Reasoning!

1. **Claim:** Water molecules stick to other water molecules.

- **Evidence:**

- **Reasoning:**

2. **Claim:** Water molecules stick to other kinds of molecules.

- **Evidence:**

- **Reasoning:**