STEAM **Sticky Spiderman**

- You will need:
    - Two plastic cups
    - Water
    - 2 feet of absorbent cotton twine, yarn, or string (thicker than thread)
    - Paper towels

Fill one plastic cup halfway with water and set it next to an empty cup.
Soak one end of the string in the cup with water for 10 seconds.
Hold the other end of the string above the empty cup.
Hold the cup with water upright.
Use your pointer finger to keep the string along the bottom of the rim of the cup as you tilt it towards the empty cup.
Pour the water slowly along the string.
Watch as it clings to the string and drips off the end into the empty cup.

- *What do you think is happening?*
- *Does the temperature of the water change how fast the water moves?*
- *Do different strings work differently?*
- *How long will it take for all of the water to travel along the string to the other cup?*

One of Spidernan's superpowers is adhesion, which allows him to attach to walls. Adhesion is the attraction of one kind of molecule to another. For example, adhesion allows water to climb upward against gravity (this is known as capillary action), which depends on the attraction between water molecules and the glass of the tube.