Name:_____ Date:_____
Mod_____

Water Olympics Lab

Event 1: **<u>The balance beam: a penny for your thoughts!</u>** • Use the eyedropper and see how many drops of water you can drop on the penny before the water spills over. • Record the number of drops of water. **How many drops of water were you able to place onto a penny** **Describe how this event displays water's adhesive and cohesive properties**.	**Event 2:** **<u>Pole vaulting: over the top!</u>** • Fill the plastic cup up with water until it is even with the rim. • Add pennies, one at a time. Keep track of the number of pennies added. • Continue until the water spills over the side. • Record the number of pennies used. **How many pennies were you able to add to the cup?** **Describe how this event displays water's adhesive and cohesive properties**.

Event 3:
<u>Race!</u>

- Each team member chooses a brand of paper towel.
- Cut each paper towel into a 24cmx5cm rectangle.
- Obtain one beaker for each paper towel.
- Pour 20mL of water into each beaker.
- On the count of three all members of the team put the very end of the paper towel into a beaker.
- Leave the tip of the paper towel in the water for 5 seconds.
- Immediately remove the paper towel from the water after the 5 seconds.
- Wait two minutes for the water to move up the paper towel.
- Measure the distance the water traveled up each paper towel in centimeters.

Which brand of paper towel did the water travel the furthest?

Describe how this event displays water's adhesive and cohesive properties.

Event 4:
<u>Backstroke!</u>

- Try placing a paper clip on the surface of water. (Hint: lay the paper clip on the prongs of a dry fork and lower it into the water.)
- See how many paper clips you can suspend on the water's surface. Record the number of paper clips.

How many paper clips were you able to place on the surface of the water?

Describe how this event displays water's adhesive and cohesive properties.

Event 5: <u>The tight rope</u>	**Station 6: <u>Shoot out</u>**
• Fill one beaker up to 150mL and wet the string. • Place the string on the spout of the beaker filled with water. • Lift the beaker and place other end of string on the inside of the second beaker. • Pour the beaker with the water down the string into the second beaker. • Time how long it takes to fill the beaker. **How long did it take for you to fill the beaker?** **Describe how this event displays water's adhesive and cohesive properties**.	• Within two minutes see how much water you can shoot into the beaker. • Do not cross the line! • Measure the amount of water you were able to get into the beaker using the graduated cylinder. **How much water were you able to shoot into the beaker?** **Describe how this event displays water's adhesive and cohesive properties**.