Penny Lab

Goal: Fit as many water droplets as possible onto the surface of a penny.

What is cohesion?
Cohesion is when molecules of the same substance are attracted to each other.

What is adhesion?
Adhesion is when molecules of different substances are attracted to each other.

Prediction: _____ drops of water can fit on the penny.

Materials:

- Pipette
- Penny
- 1 cup of water
- Paper towel

Instructions:

1. You will be given a pipette, penny, paper towel, and a cup of water. DO NOT TOUCH THESE UNTIL INSTRUCTED TO.
2. Place the penny on the paper towel.
3. Use the pipette to add water to the penny one drop at a time. Go slowly and make sure to keep count of the amount of drops you have added.
4. Write down observations as you go, including drawings.
5. Stop adding water once the water flows off of the penny, and record the amount of drops that made it overflow.

Observations:

Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6

Data:

	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6	**Average**
Amount of drops							

Questions:

1. Was your prediction close to your data? How much was it off by?

2. Why do you think the penny held so much water?

3. How was adhesion and cohesion involved in this lab?