NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**3**

DATE \_\_\_\_\_\_\_\_\_\_\_\_\_ PER \_\_\_\_\_\_\_\_

ARE YOU STRONG WITH THE FORCE???

**Balloon & Water Demo…**

|  |  |
| --- | --- |
| **3 Observations** | **3 Questions** |
| 1.  2.  3. | 1.  2.  3. |

**Interpret Your Data:**

1. Was the water attracted or repelled by the balloon?

2. What do you know about objects that attracted to each other?

3. If a balloon becomes negatively charged when you rub it on your head, what charge much water have?

4. Why was the balloon able to make the water move? Describe the force and the charges on each object.

**Bubble Races:**

*Brainstorm with your team!*

How will you make your bubble cross the finish line in the least amount of time? How can you make sure you have the strongest force between your balloon and your bubble so you can pull your bubble faster than the other teams? (3 to 5 sentences)

|  |
| --- |
|  |

**After The Races…**

|  |  |
| --- | --- |
| ***OBSERVATIONS***  Record any **observations** you made about your balloon and bubble as well as other teams’ balloons and bubbles. Include anything you changed from your brainstorm and **why** you changed it. | ***QUESTIONS 2 OR 3***  Record 2 or 3 questions you have or can ask about your observations. |
|  |  |

**Interpret Your Data:**

1. Why was the balloon attracted to the water/bubble?

2. What is the force that caused this attraction?

3. What happened if the balloon was too far from the water/bubble?

4. What happened if the balloon was not rubbed on hair enough?

5. What are 2 factors that affect the strength of the Static Electric Force?

6. List any examples of static electric forces that you have experienced.