

What is Static Electricity?

1. Define static electricity:

Static electricity is the result of an imbalance between negative and positive charges in an object. These charges can build up on the surface of an object until they find a way to be released or discharged.

<u>“Sticky” Balloon</u>	<u>“Attractive” Water</u>	<u>“Repelling” Balloons</u>
Draw your observations. Where are the negative charges?	Draw your observations. Where are the negative charges?	Draw your observations. Where are the negative charges?

2. How can I return my balloons/comb to a neutral state? Hint: how do you fix staticky hair?

Rub the balloon with a damp washcloth or touch the comb to the water. The excess negative charges will flow from the balloon or comb through the cloth or water to the ground. If you dampen your hair, you will have hair less staticky.

Create Your Own Experiment

Hypothesis: Filled in by student

Procedure:

Filled in by student

Observations:

Test	Movement of Objects
1	Completed by student
2	Completed by student
3	Completed by student

Results:

What did you observe about the effect of charges on the movement of objects?

Opposite charges attract and like charges repel. Substances of similar materials or materials that have similar charges will move away from each other. Substances with different charges will move towards each other.

Conclusion:

Substances of similar materials or materials that have similar charges will move away from each other. Substances with different charges will move towards each other.