



SfS Away from the Classroom!

P07: The Force of Static Electricity (Recommended for Grades 6-8)

Please use the following resources to learn about static electricity.

Watch this Video: <https://www.youtube.com/watch?v=yc2-363MIQs>

Answer these questions:

- What are the 3 types of particles that make up an atom?
- Why are most things electrically neutral?
- What charges are on the particles that move, and create static electricity?

Activities: Follow these directions to experiment with static electricity.

You will need:

<ul style="list-style-type: none">• Balloon• Plastic straws	<ul style="list-style-type: none">• Empty soda can	<ul style="list-style-type: none">• Wool cloth (like a sweater or pair of socks)
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1. Blow up the balloon and tie it.
2. Put the soda can on its side, on a flat surface like a table or floor.
3. Rub the balloon on your sweater or wool cloth - a lot!
4. Put the balloon near the can. What do you observe? Did the can move?
5. Can you make the can move if you use the straw instead of the balloon?
 - a. Make sure you rub the straw on the wool fabric.
6. If you have two balloons and two cans, race someone!

Make observations & use Claims, Evidence, and Reasoning!

1. **Claim:** Static electricity can make an object move.
 - **Evidence:**

 - **Reasoning:**
2. **Claim:** To create static electricity I needed an insulator and a conductor.
 - **Evidence:**

 - **Reasoning:**