Experiment Details for Session 6: STATIC ELECTRICITY

Reminder: All experiments recreated at home should be done under the supervision of a parent or guardian to ensure the safety of the child. No experiments listed should cause any harm!

Dancing Bubbles

Materials:

1. PVC Pipe/Balloon
2. Bubble Solution
3. Smooth surface (glass/laminated surface or you can use clear wrap!)
4. Straw
5. Towel

Procedure:

1. Pour some bubble solution onto a smooth surface (If you don't have any bubble solution you can easily make your own with soap and water!)
2. Take a straw (small ones work best) and blow into the bubble solution to make a bubble!
3. Rub the PVC pipe as fast an you can against the towel
4. If using a balloon, rub it as fast as you can against your hair or a towel
5. Take your balloon/pvc pipe and slowly begin to move it away from the bubble
6. Watch your bubble move with the pipe/balloon!

Go Go Can!

Materials:

1. PVC Pipe
2. Towel
3. Aluminum can

Procedure:

1. Rub the towel against the PVC pipe as fast as you can!
2. Slowly move it away from the can
3. Watch the can follow the PVC pipe!

Rising Papers

Materials:

1. A Balloon
2. A tissue or a piece of paper
3. Hair/cloth/towel

Procedure:

1. Rip the tissues/paper towel into small pieces
2. Spread them over a table
3. Rub the balloon on a towel or cloth or even your hair!
4. Slowly lower the balloon onto the tissues

Tin Foil Popcorn

Materials:

1. A balloon
2. Tinfoil
3. Any cloth/shirt/carpet
4. Scissors

Procedures:

1. Cut a sheet of tinfoil and place it on any flat surface
2. Cut a few short strips of tin foil and roll them up into small balls (the popcorn!)
3. Take the balloon and rub it quickly against your cloth/shirt/carpet; note that however long you rub the balloon, the cooler the reaction will be!
4. Quickly hold the balloon over the tin foil balls. What do you see?