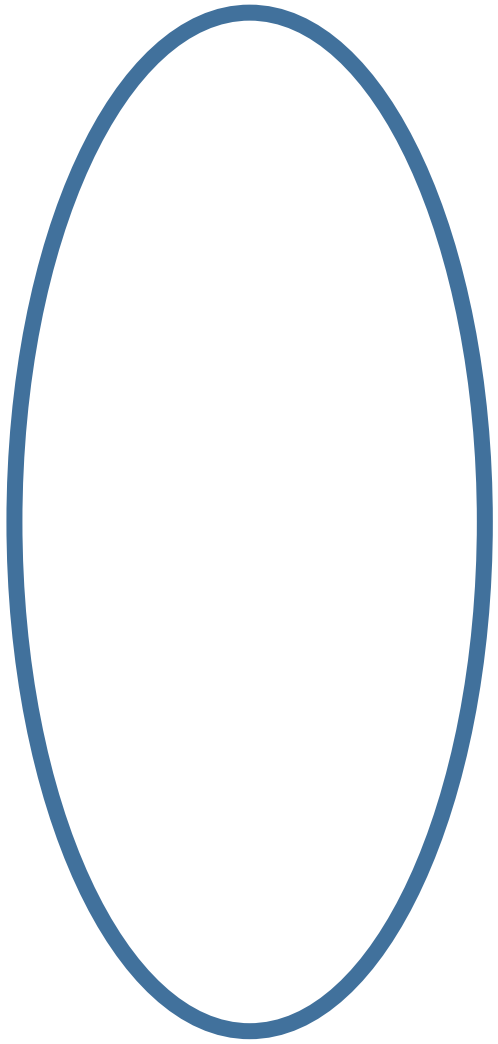
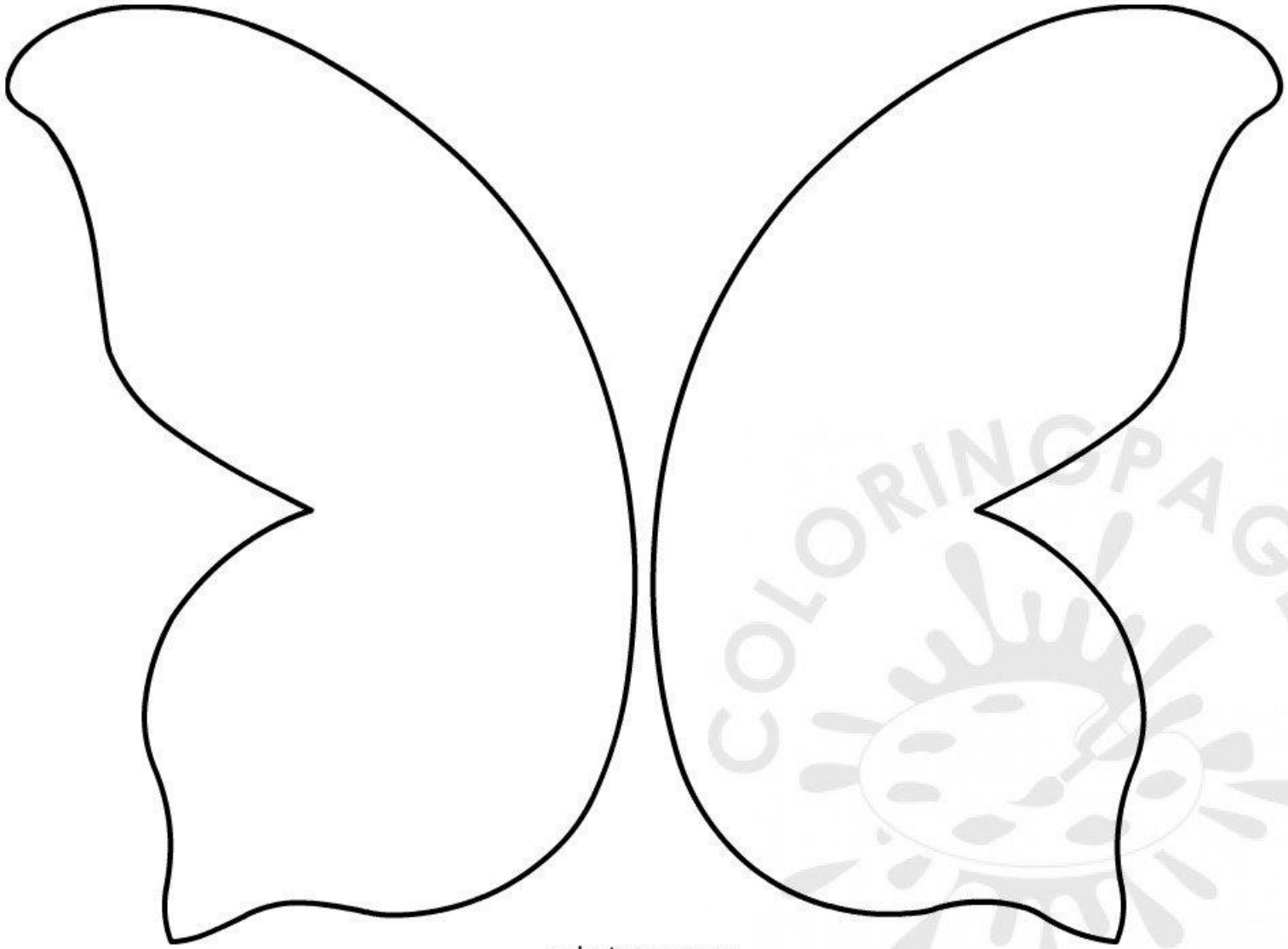
Template for butterfly body



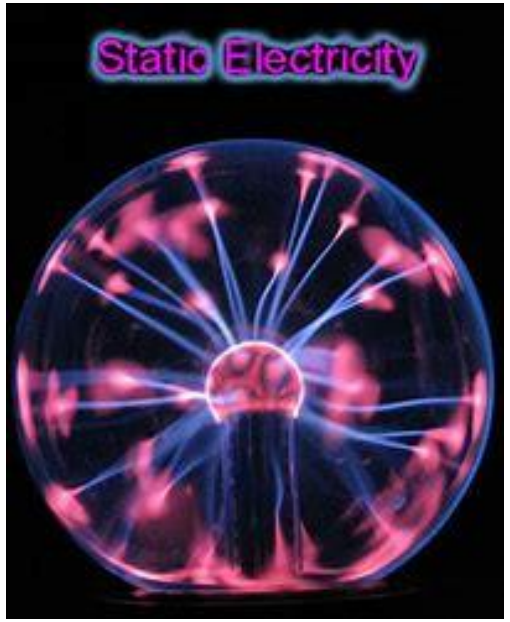
Template for butterfly wings



Science

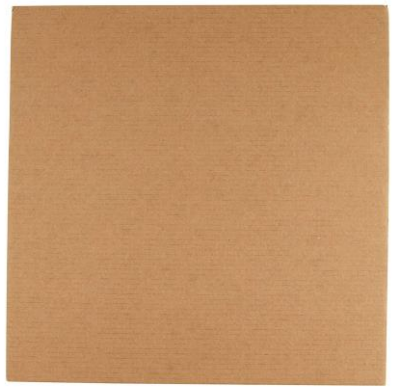
Static Electricity

Today we will be learning about a different type of electricity called static electricity! Here are some pictures of what we will be learning about or doing today….

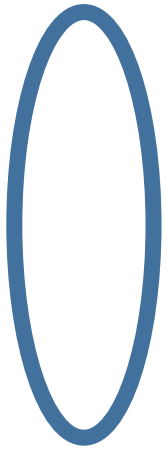


The materials needed for this lesson are…

Plasma Ball



1 piece of cardboard per student

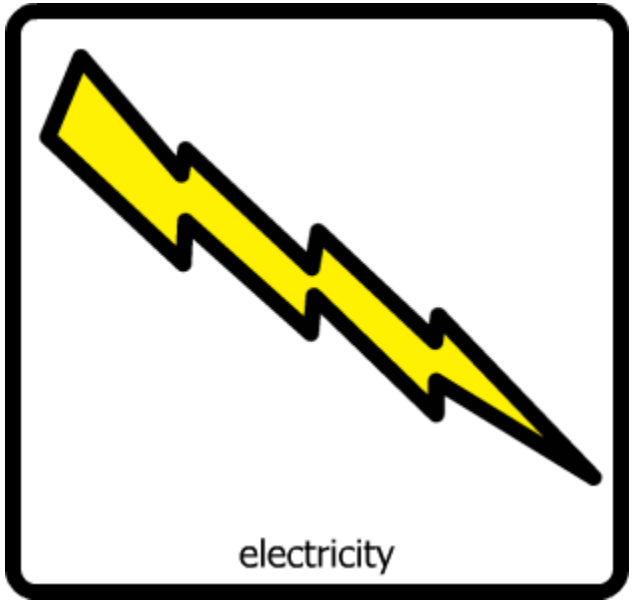


Butterfly body (1 per student)

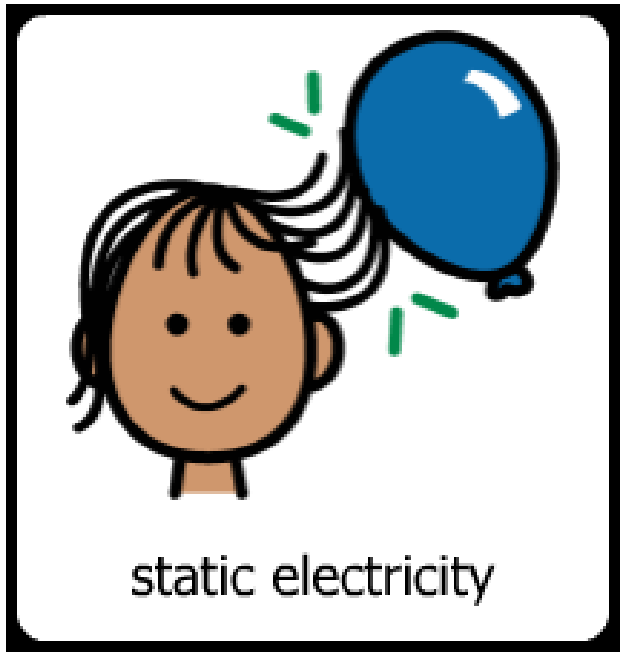
Butterfly wings made out of tissue paper, 1 per student

Balloons

The vocabulary for today’s lesson is….

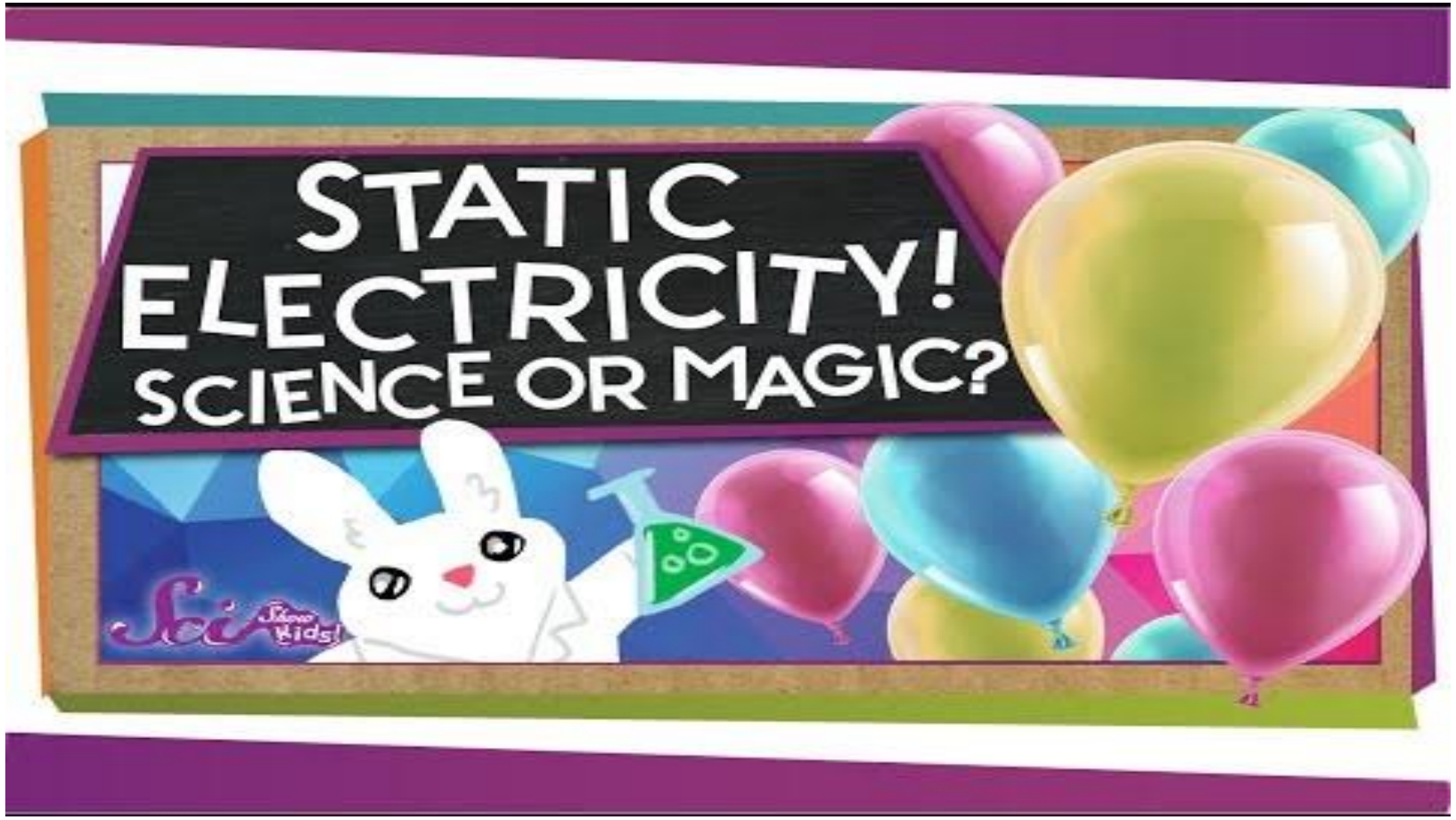


The flow of **energy** you get when electrons flow from place to place.
*Electricity can be seen in nature in a bolt of lightning.



the build-up of an **electricity** on the surface of an object. The reason that it's actually called **static electricity** is because the charges stay in one area

Step 1: Let’s watch a video about static electricity to understand a little bit more:



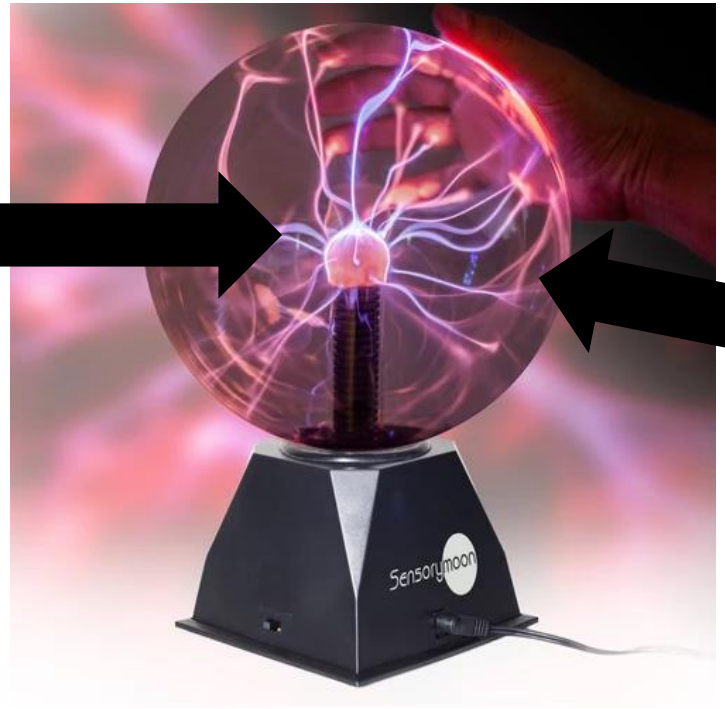
https://www.youtube.com/watch?v=5TAIUCYMlIQ

Step 2: Let’s use the plasma ball

What exactly is a plasma ball?

- A plasma ball is a clear glass ball filled with a mixture of gases with a high-voltage electrode at its center. Plasma filaments extend from the electrode to the glass when electricity is supplied, creating beams of light.

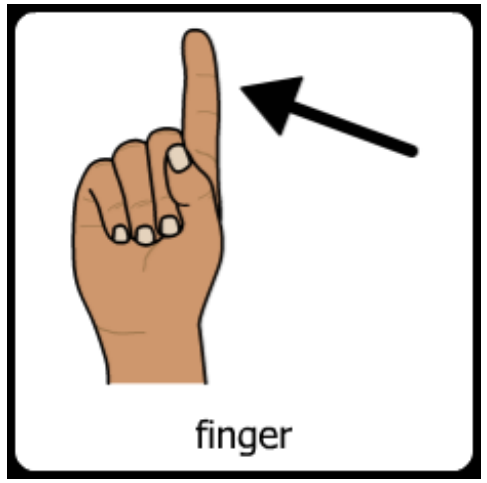
Electrode



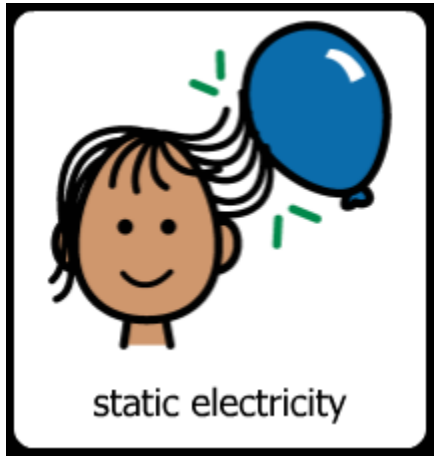
Plasma filaments

When we put our finger on the ball, it creates a place for the energy to flow…

- That’s why the filaments move!



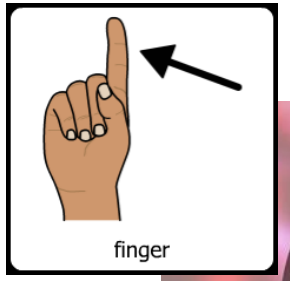
But how is this static electricity?

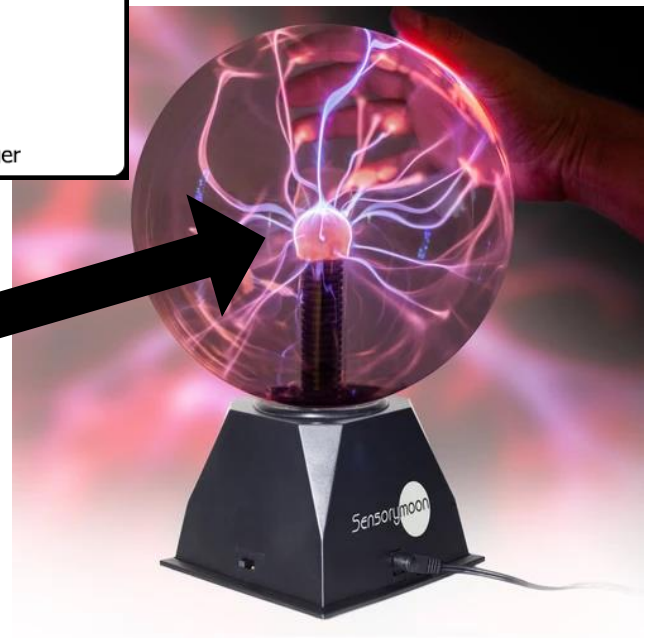


The electrode creates a huge **negative** charge on a metal ball that's inside a glass dome.

The charge instantly builds up to the point where electrons are flowing from the ball to the inside of the glass. You can see it

If you touch the glass, the charge will be attracted to where your finger pointed!





Electrode

Step 2: Making our own static electricity butterfly

Find “make” on devices

Put your name on the cardboard and glue a body in the middle. Add googly eyes

Choose what color wings you would like and only glue the wings close to the body!

- The wings need to be able to flap

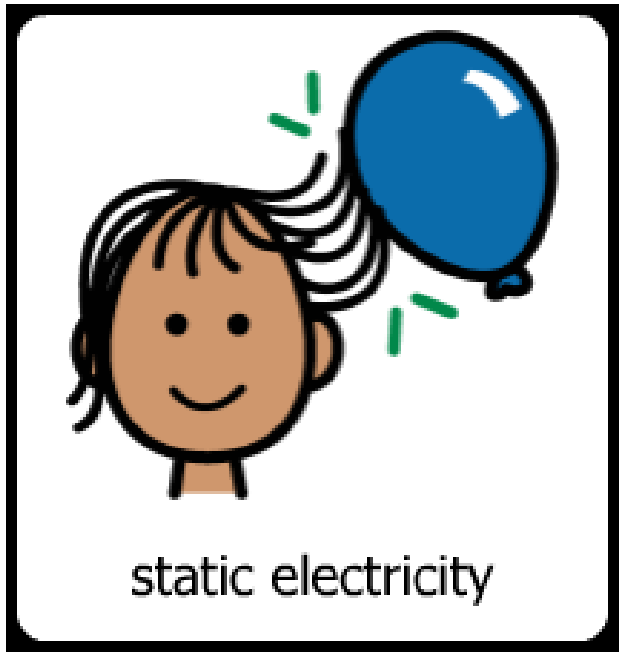
Blow up a balloon and have your teachers help you tie it

Rub the balloon on your hair or shirt for at least 20 seconds, then quickly hover the balloon over the butterfly wings

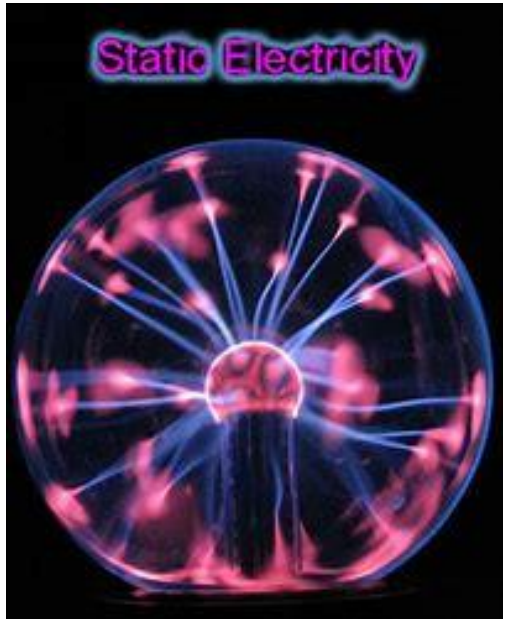
Also, check out your hair!

What happened?

- The static electricity in the balloon caused by rubbing it on your hair or shirt made the butterfly wings “fly.” Science is cool! Keep making your butterfly flap its wings!

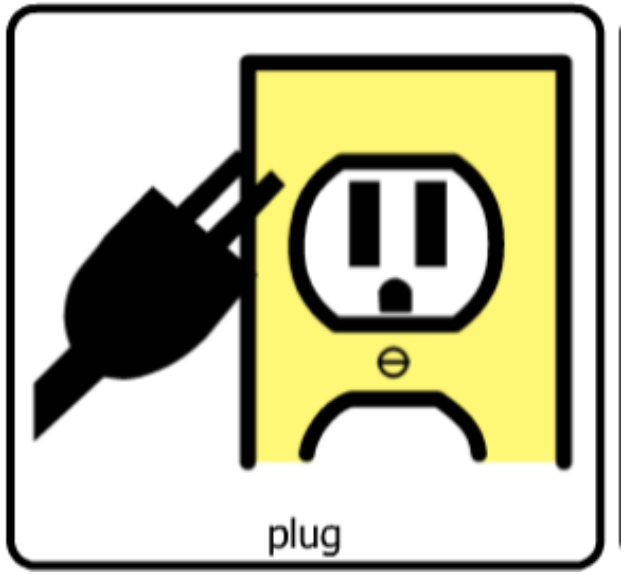


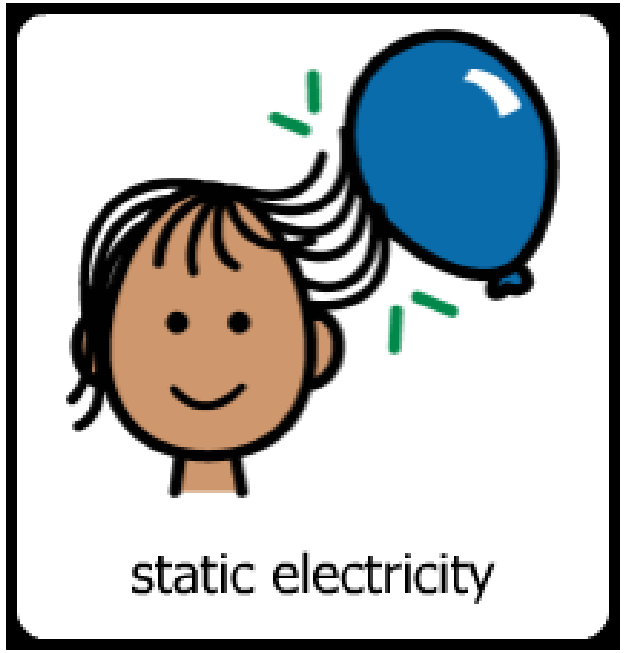
Today we learned about a different type of electricity called static electricity and how it works.



Quiz Questions about today’s lesson:

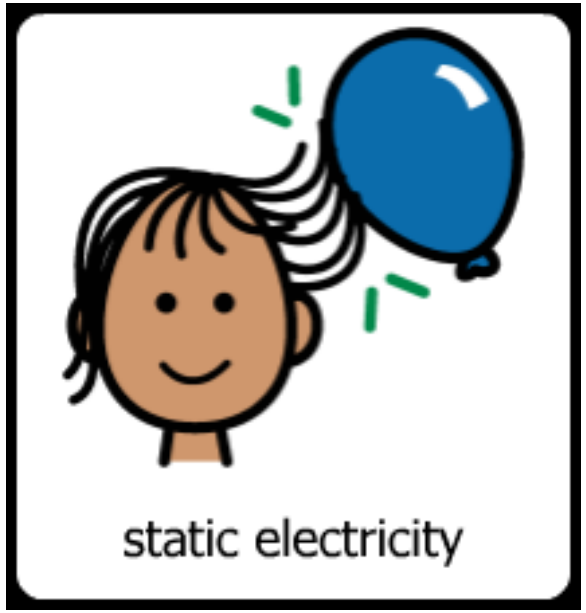
1. Which vocabulary word is the build up of electrical charges on an object?





Quiz Questions about today’s lesson:

2. What did we use to make the butterfly wings “fly”?



We are ALL DONE!

- Teacher says "_____ is All Done! Time for _____!"
- Teacher says "Everyone check schedule!"
- Teacher changes the classroom schedule.
- Paras will assist individual students with checking schedules.