

LITTLE BINS
LITTLE HANDS

STEM

MAGIC ROLLING CAN



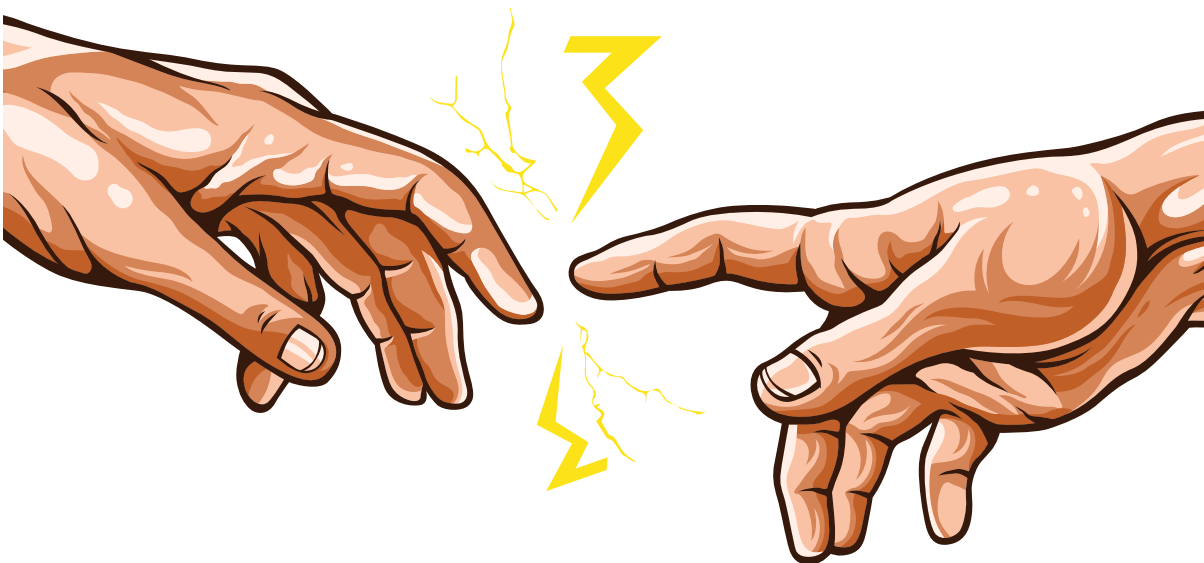
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WHAT IS STATIC ELECTRICITY?

Static electricity happens when certain things rub against each other and make tiny particles called electrons move from one thing to another. This makes one thing have more positive charge and the other more negative charge.

Sometimes, when you touch something, like someone's hand, after shuffling your feet on carpet, you might feel a little shock!

That's static electricity.



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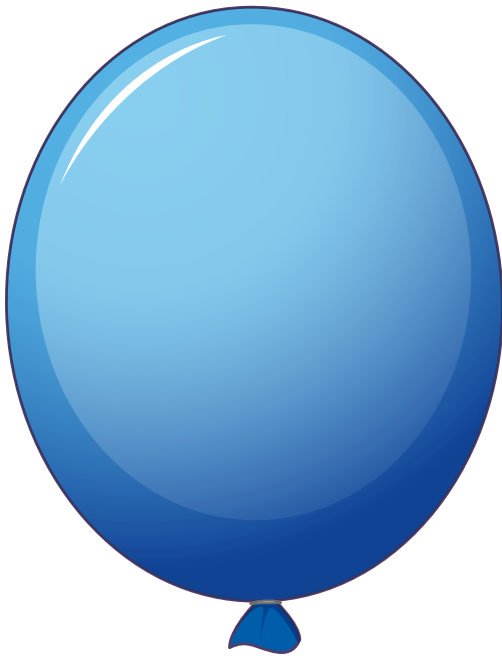
Let's learn about static electricity!

You'll need:

Balloon

Aluminum can

Hair



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Rub the balloon in your hair for several seconds.

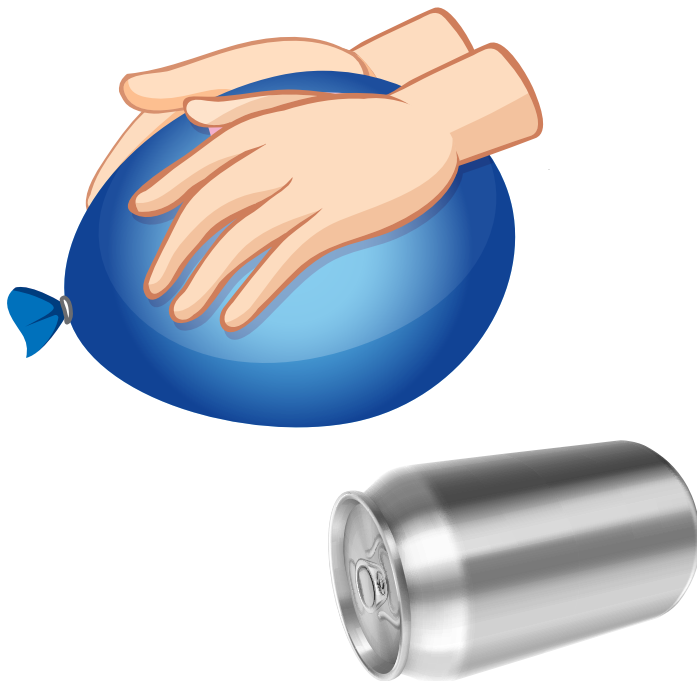
What do you feel happening?



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Now lay down the can on its side and move the balloon close to the can without touching it.

What did you see?



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The balloon sticks to your hair because of special invisible power called static electricity.

When you bring the balloon close to the can, something funny happens. It's like magic! The can feels the invisible power from the balloon and gets a bit excited.

The can begins to follow the balloon!



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In the context of static electricity, the attraction between objects is primarily due to the movement of electrons.

Electrons are negatively charged subatomic particles that orbit the nucleus of an atom. When two objects come into contact, or are rubbed together, electrons can be transferred from one object to the other.

The attraction between the negatively charged object (the balloon) and the positively charged object (the can) is what causes them to stick together or be attracted to each other.





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