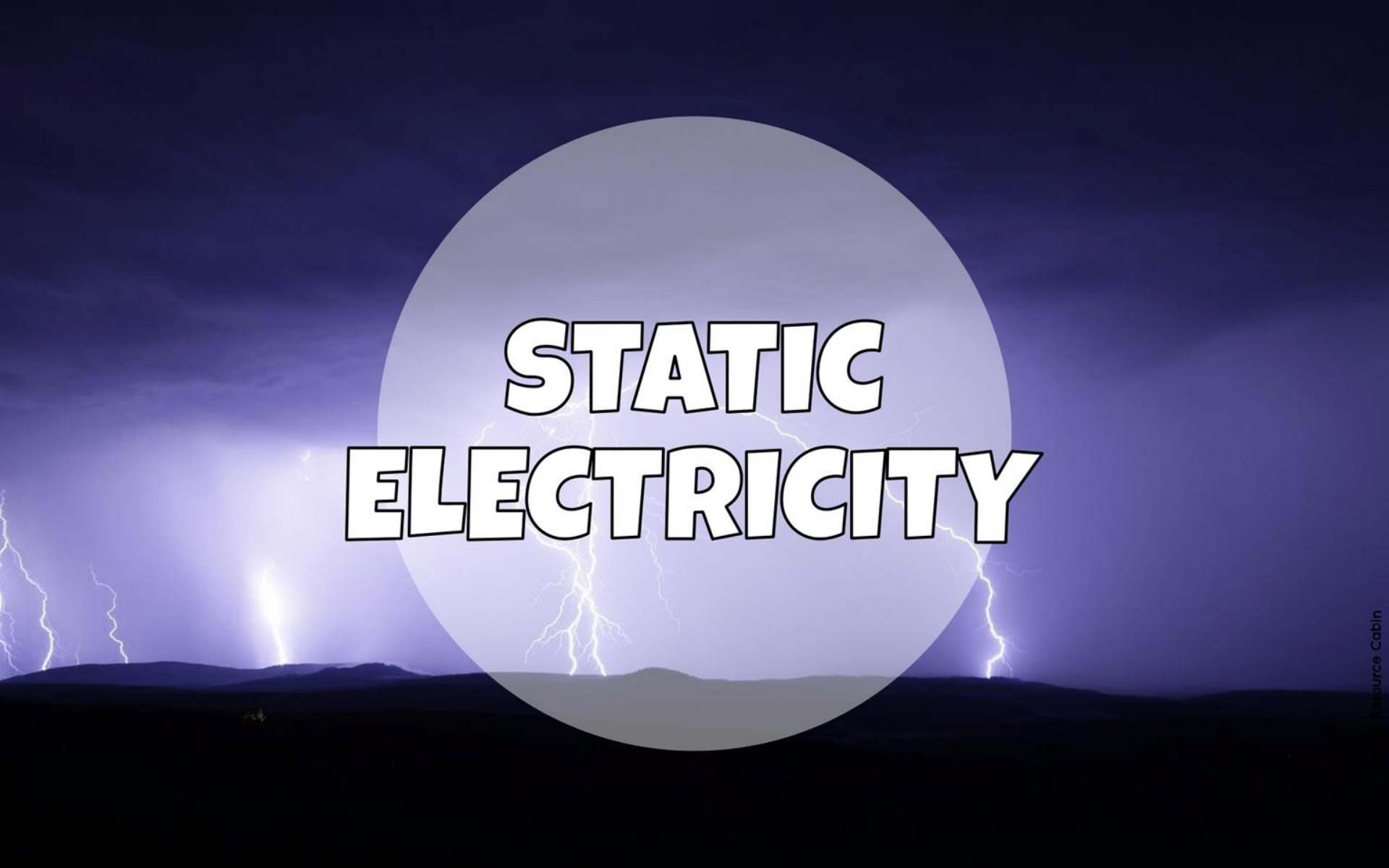


STATIC ELECTRICITY

- Static electricity is the build-up of an electrical charge on the surface of an object.

- In contrast to current electricity, static electricity remains in one place, which is why it is called “static.”

STATIC ELECTRICITY

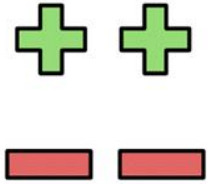
Examples:

- When your socks rub against a carpet, and you feel a shock
- When your clothes stick together after going through the dryer
    - Lightning is also static electricity!

STATIC ELECTRICITY

- A static charge happens when two surfaces rub together and the **electrons** move from one object to another.

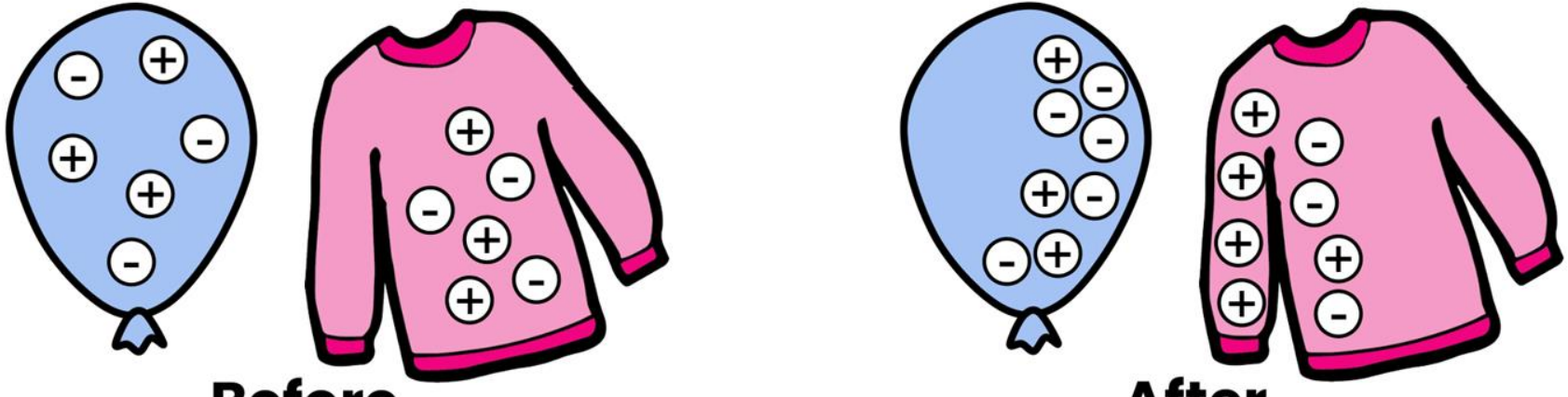
Items with different charges will pull toward each other.



Items with the same charge will push away from each other.

STATIC ELECTRICITY

The diagrams show the movement and position of atoms when the objects are rubbed together:



What do you notice about the atoms?

? ? ?

How are static and current electricity similar?

How are they different?