



**Electrostatics** is the study of static electric charge – an electric charge that \_\_\_\_\_\_ in one spot.

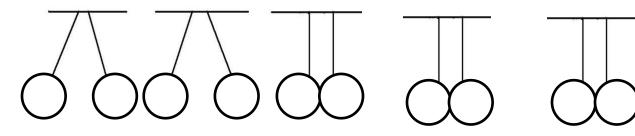
## **Electric Charge:**

An object on its own is electrically \_\_\_\_\_\_. It has an \_\_\_\_\_\_ number of positive and negative charges.



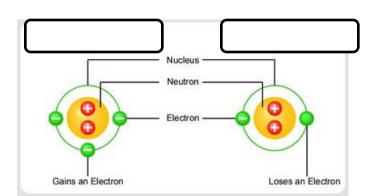
## Law of Electric Charges:

- Like charges \_\_\_\_\_\_ each other
- Unlike charges \_\_\_\_\_ one another
- Charged objects \_\_\_\_\_ neutral objects



Three Ways to Make Static Electricity:
1 - Friction:
2 different neutral objects are rubbed together
One becomes \_\_\_\_\_\_ charged, and the other \_\_\_\_\_\_ charged.
The duster becomes \_\_\_\_\_\_. The polythene becomes \_\_\_\_\_.

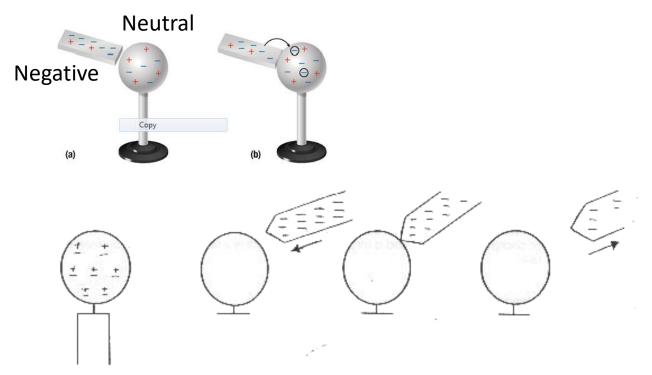
In some elements, the \_\_\_\_\_ has a weaker hold on its \_\_\_\_\_, and their electrons can move easily. If an object \_\_\_\_\_ electrons it becomes \_\_\_\_\_ charged. If an object \_\_\_\_\_ electrons it becomes \_\_\_\_\_





## 2 – Charging by Contact:

- Two objects with \_\_\_\_\_\_ amounts of charge come in contact
- move from one object to another.



## 3 - Grounding

- object near a neutral object, charges \_\_\_\_\_
- Neutral object acts \_\_\_\_\_\_ because of separation
- If grounded, the object stays \_\_\_\_\_

