

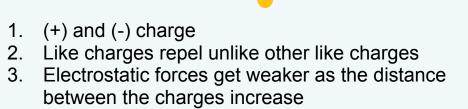
no charge:

(-) = (+)

nits best conduct

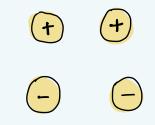
A Lightning rod (not nas to be buried (insulated) in the ground

# charge (Q)

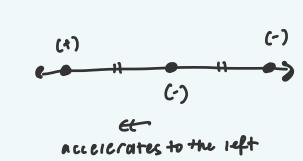


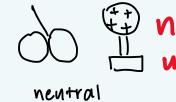
SI unit : coulomb (C)

The Sub-atomic Particles



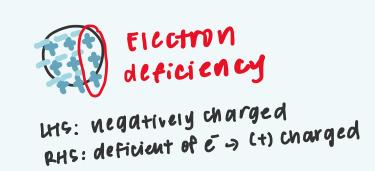
-+





) neutral + (-)/(+) -> attraction

unlike charges -> repulsion



only e

only of moves as protons are in the nyweys

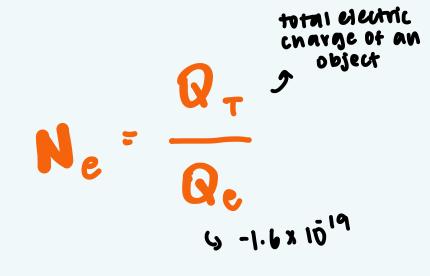
Charge is quantized: nothing can have a smaller charge than 1.6x10^19C

Everything has charge that is a multiple of 1.6x10

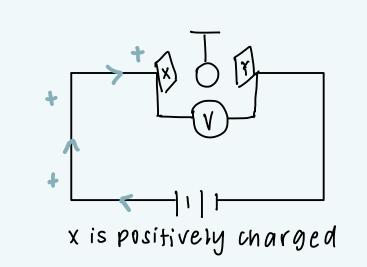
Objects are not naturally charged: neutral state

#### Conservation of charge

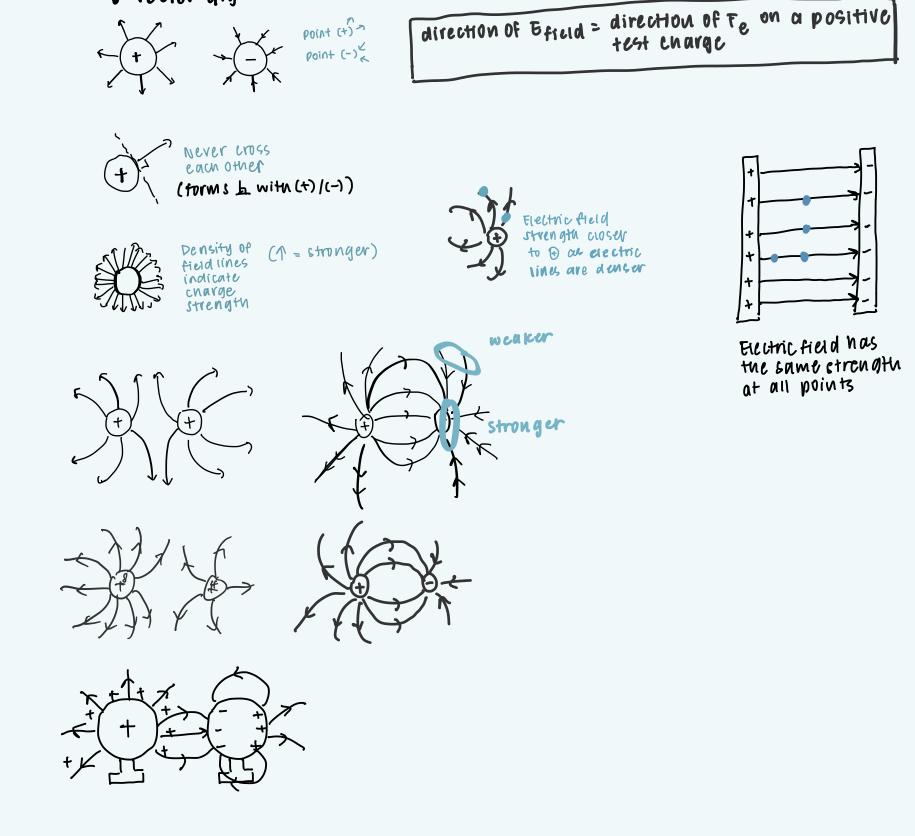
Total electric charge in an isolated system never changes. Charge cannot be destroyed or created just transferred









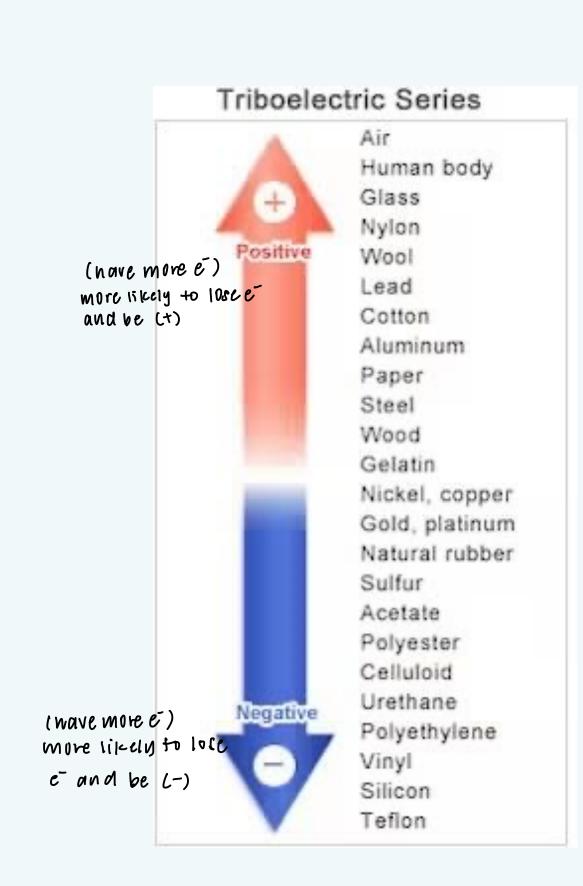


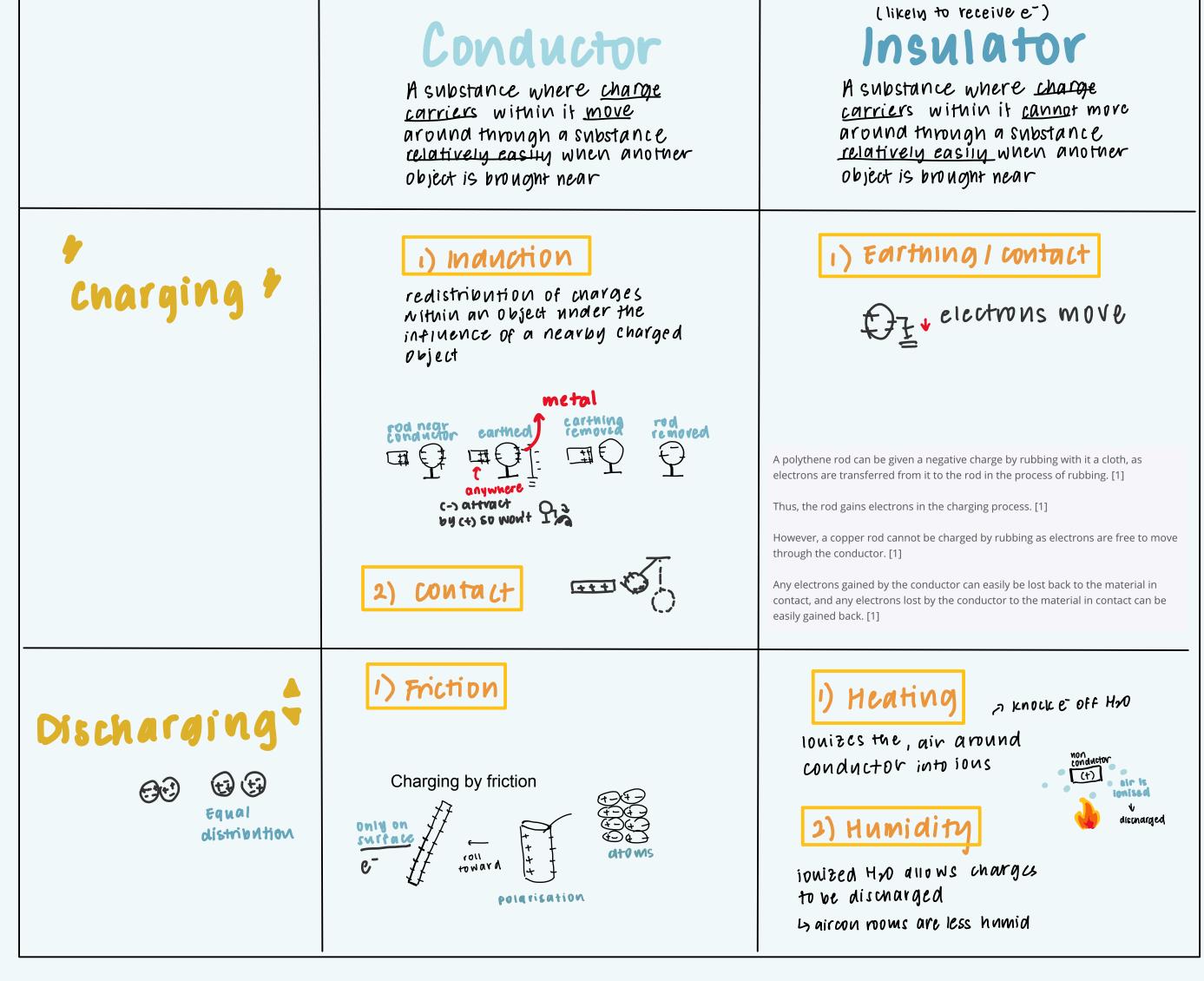
. point in direction of (+) charge

. vector aty

region in which electric

charge experiences a force





## Structured ans

#### contact

- 1) Flectrons flow from A to B
  - 4 AlB is left with a +1- net charge
- 2) Like/unlike charges attract/repel
  Lo Alb will attract/repel

### non-contact (Induction)

- 1) right lieft side be comes +1- charged due
- to the attraction of c<sup>-</sup>
  - (+) electron deficiency
- 2) Net attractive / repulsion force
- as the left I right side of A is nearer
- to B
- Li A and B attract [ repel

## Application

· (-) spray paint -> droplets spread out