

# Charges

Q1 How would you define a charge?

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## Today's ✓ List

- Charges
- Sticky Tape Review
- PhET Simulations
  - Balloons
  - John Travoltage
  - PhET Hockey
- Exit Ticket

# Charge

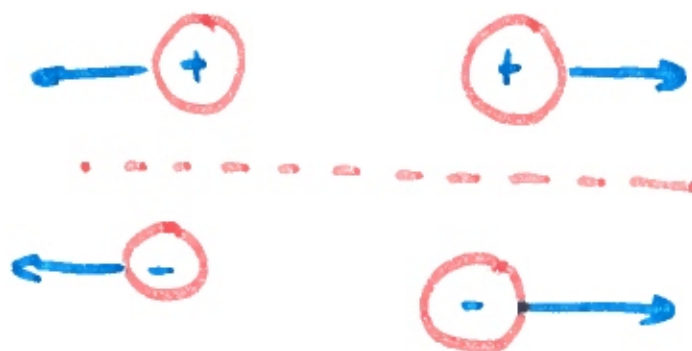
Charge is a single piece of electricity..  
There are two types of charge:



## Rules of Charge

1) Things are naturally Neutral..  
(Neutral means things have equal  $\oplus + \ominus$ )

2) Similar charges  
Repel



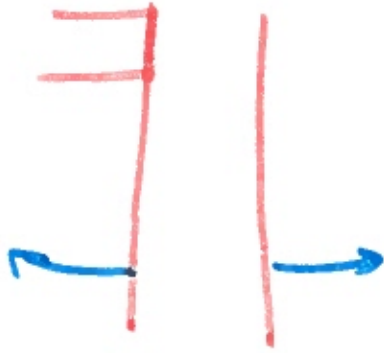
3) Opposite charges  
Attract



# Sticky Tape.

2

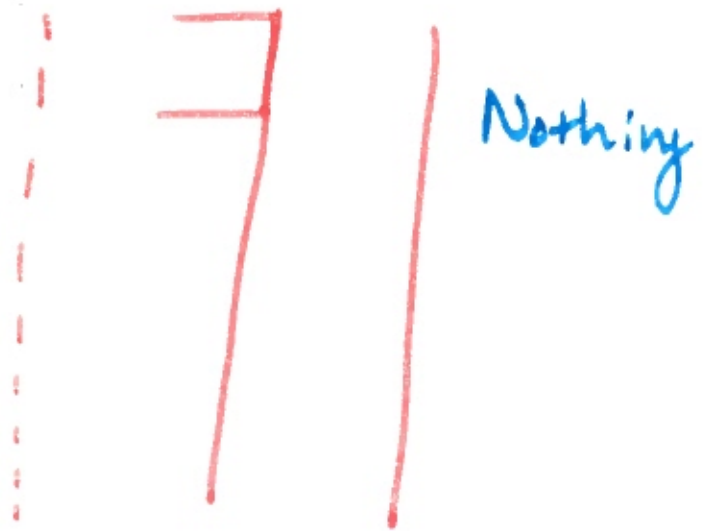
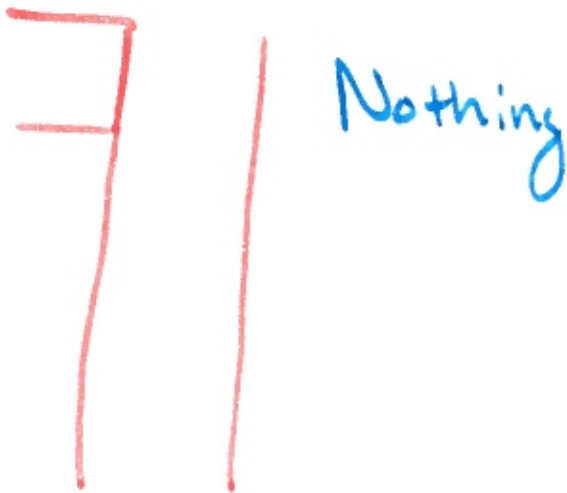
## Part A



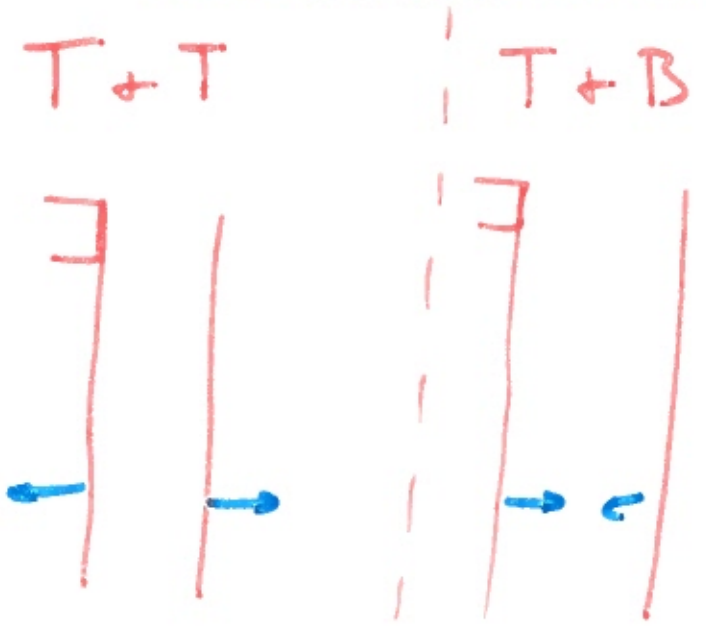
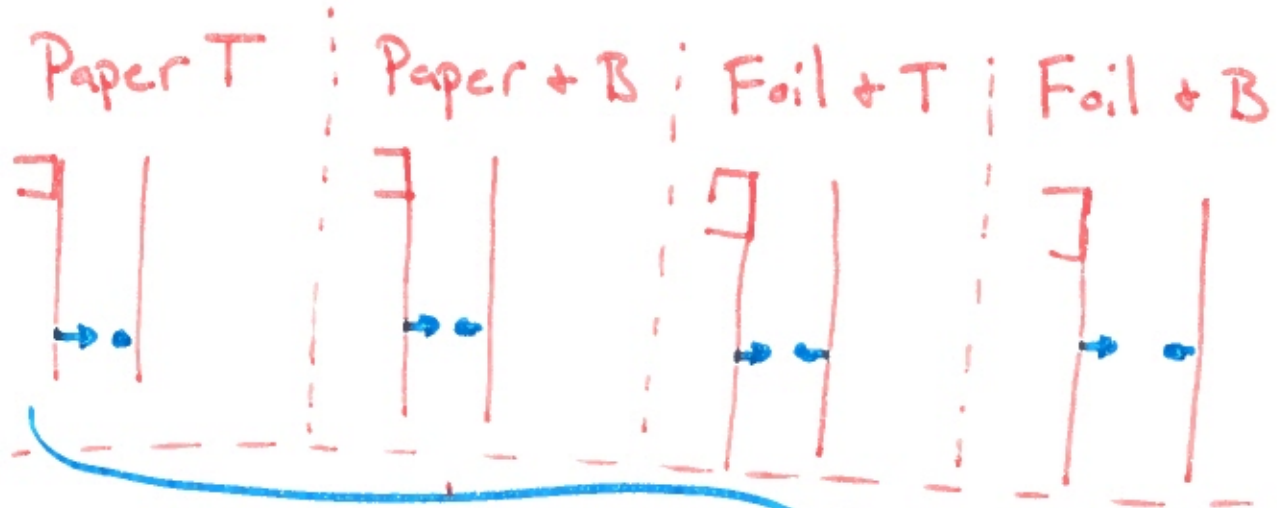
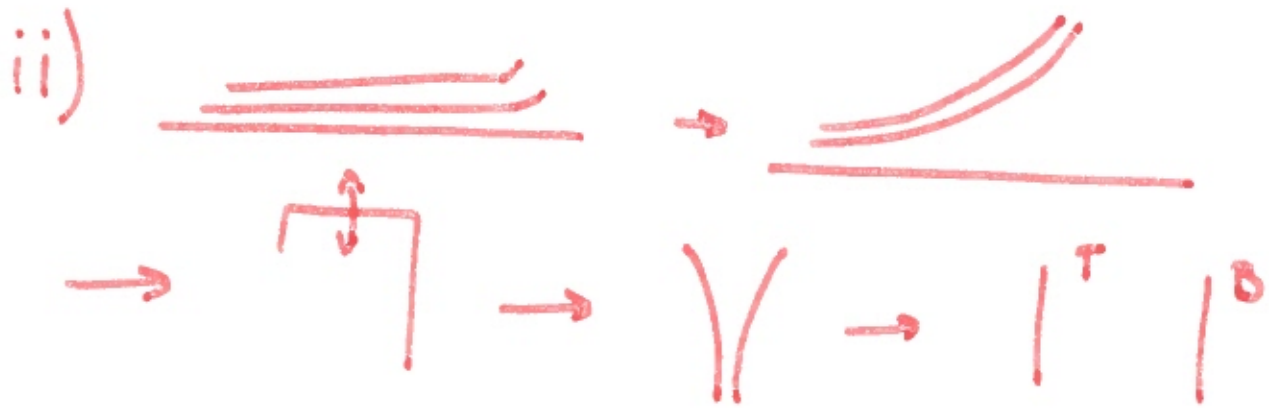
Because both were made the same way. They have the same charge and repel.

## Part B

i) Paper + Paper and Foil + Foil



Both are neutral so no force



Like  
Repel

Unlike  
Opposites  
Attract.

→ They are  
attracted  
because of  
an induced  
charge.  
See the balloon  
PHET simulation