

Lesson 4

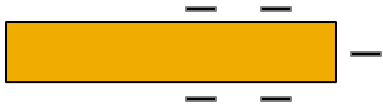
Electroscope

Conduction / induction demo

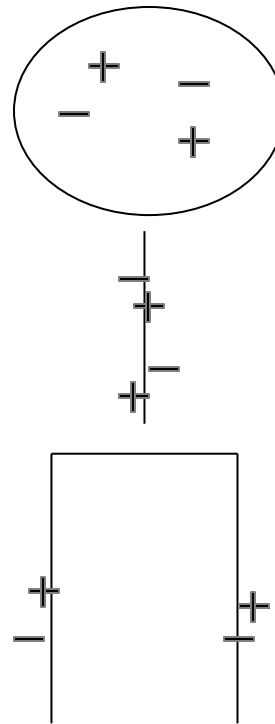
Charging by Contact

Charging by Conduction

Trial A



Before

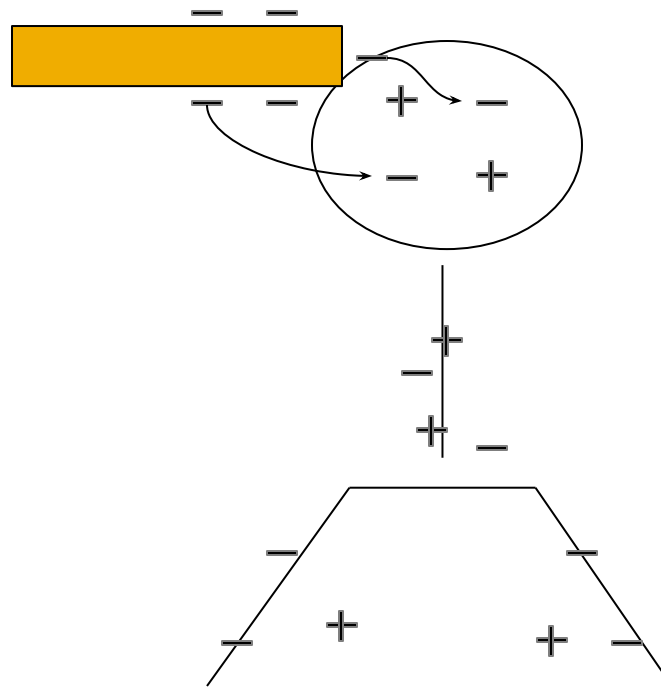


6 +
6 -

Charging by Conduction

Trial A

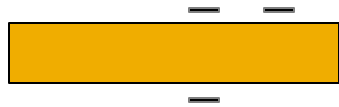
During



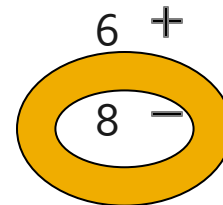
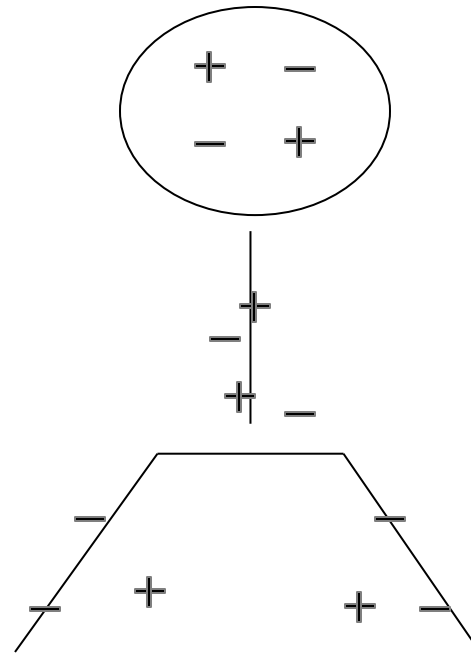
6 +
6 -

Charging by Conduction

Trial A



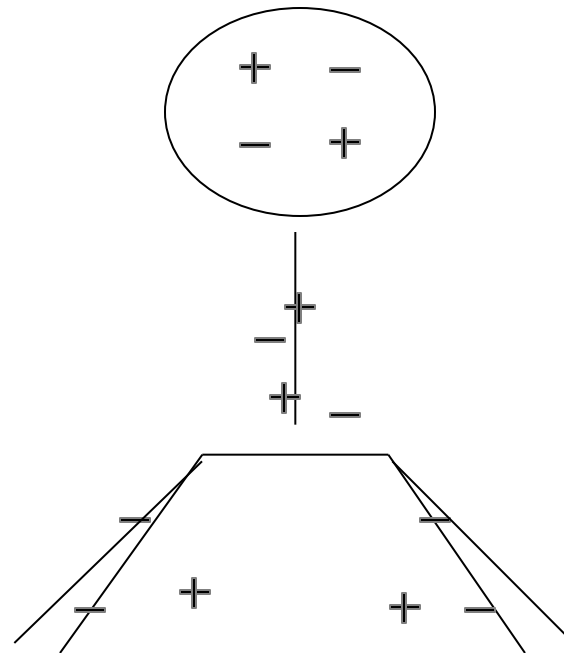
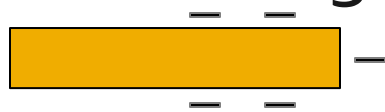
After



Charging by Conduction

Trial A

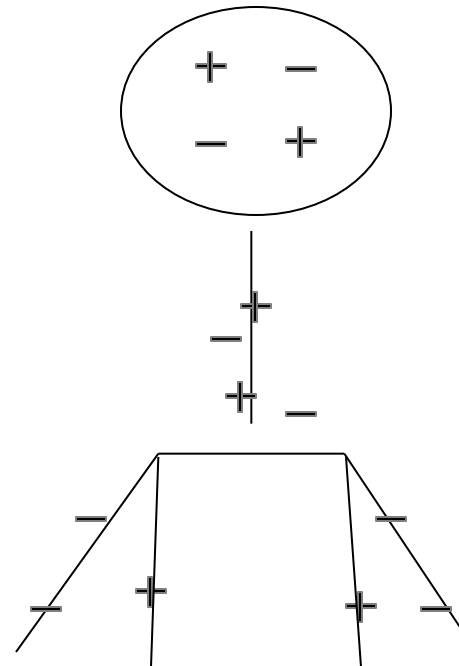
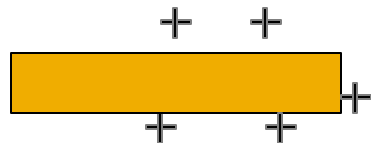
- What will happen if we bring a negative rod near the negatively charged electroscope?



Charging by Conduction

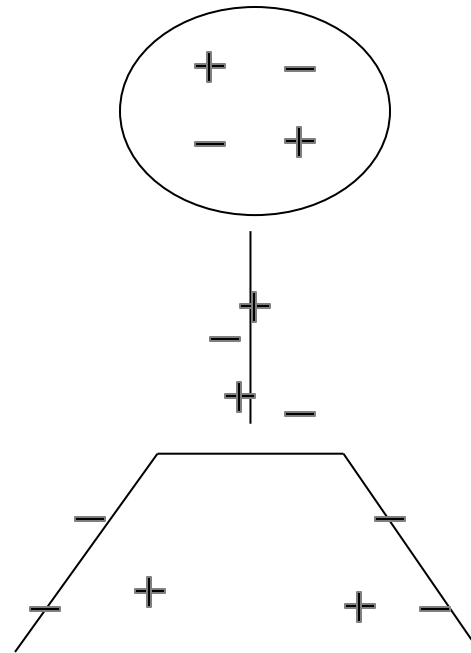
Trial A

What will happen if we bring a positive rod near the negatively charged electroscope?

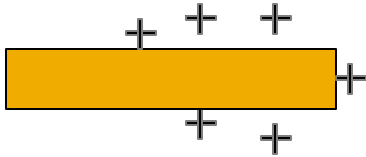


Extra - For fun

What will happen if we bring a Neutral rod near the negatively charged electroscope?

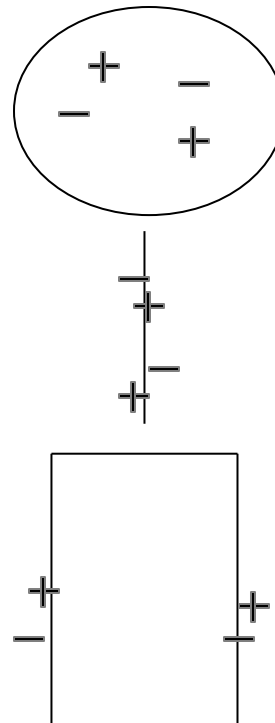


Charging by Conduction Trial B



Before

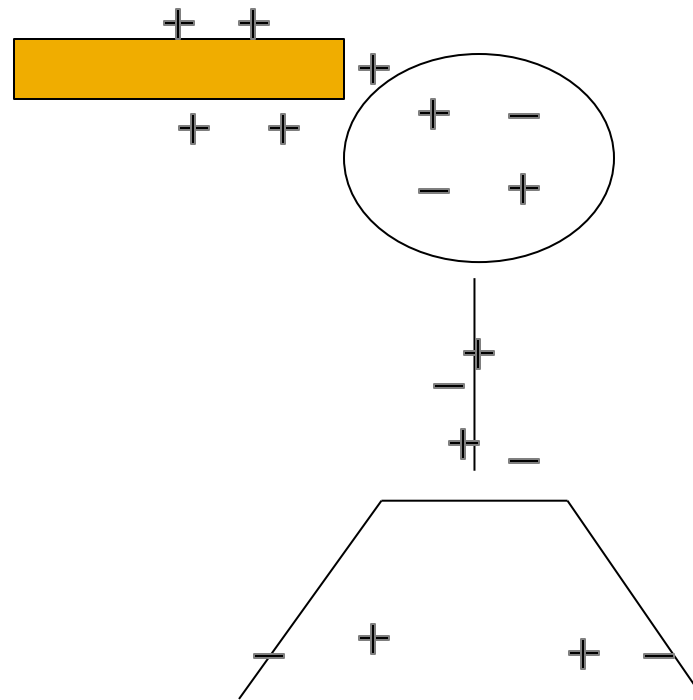
Placing a
positive
charge on the
electroscope



6 +
6 -

Charging by Conduction Trial B

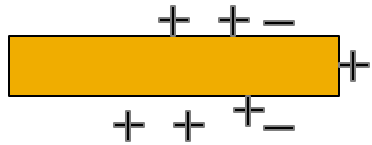
During



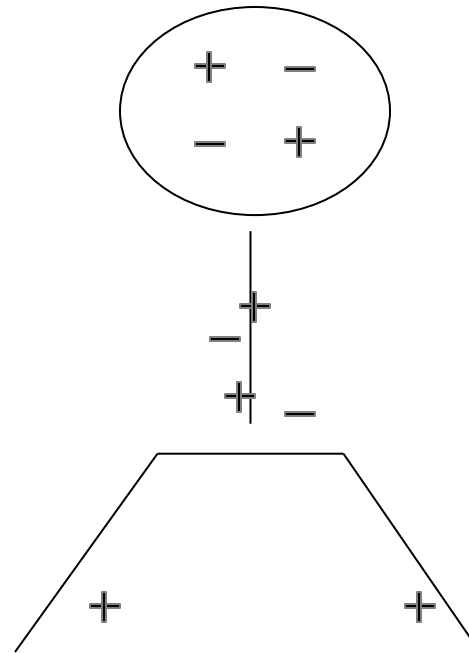
6 +
46 -

Charging by Conduction

Trial B



After

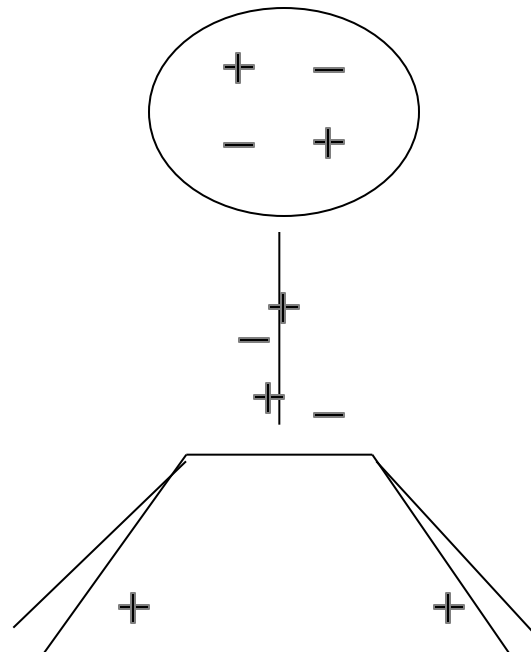
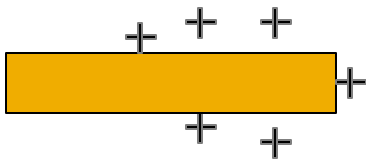


6 +
4 -

Charging by Conduction

Trial B

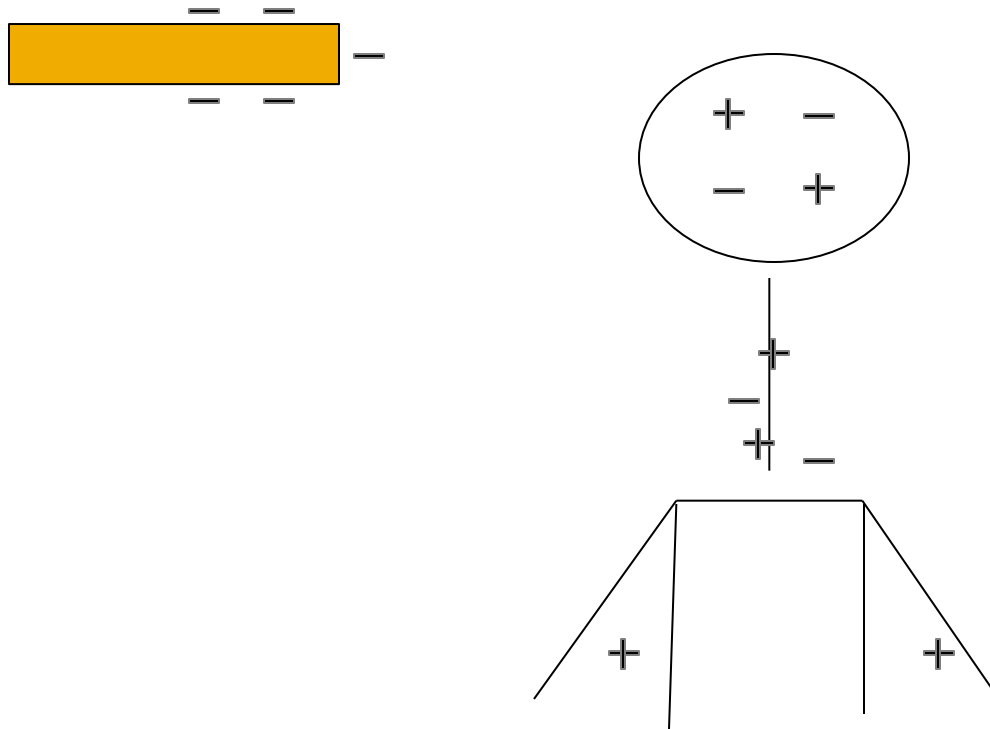
What will happen if we bring a positive rod near the positively charged electroscope?



Charging by Conduction

Trial B

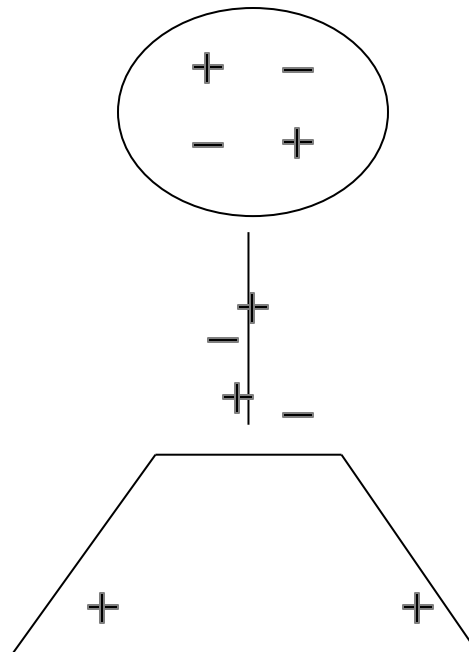
What will happen if we bring a negative rod near the positively charged electroscope?



Charging by Conduction

Trial B

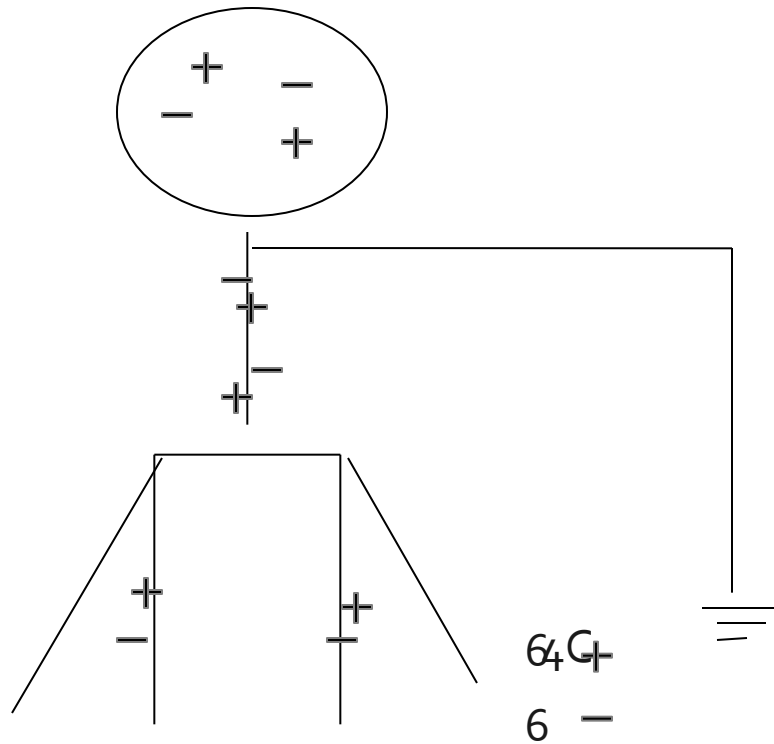
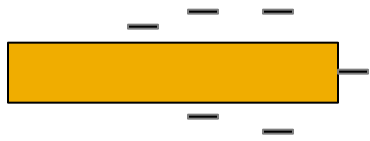
What will happen if we bring a neutral rod near the positively charged electroscope?



Charging by Induction

Charging by Induction

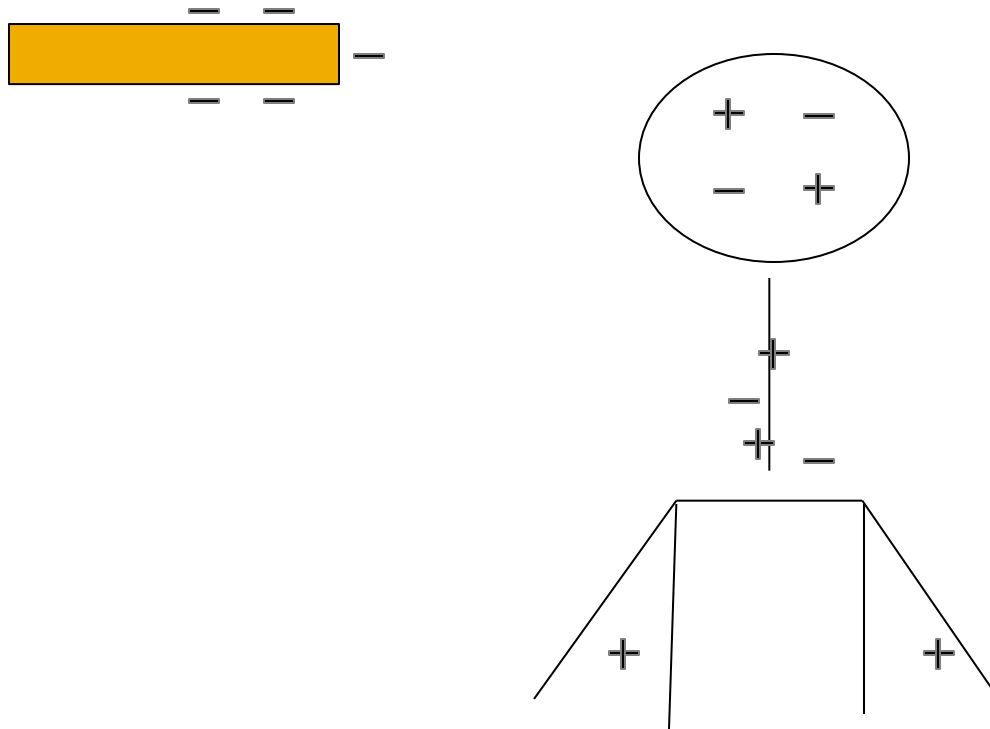
Trial A ■ Negative charged rod placing charge on neutral electroscope by induction with ground



Charging by Induction

Trial A

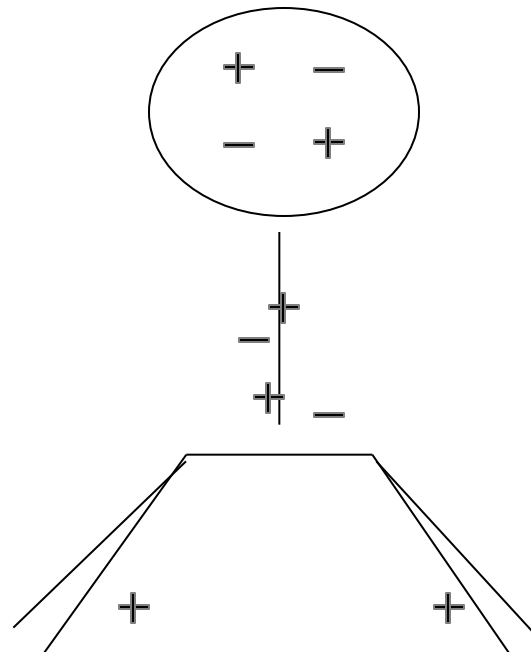
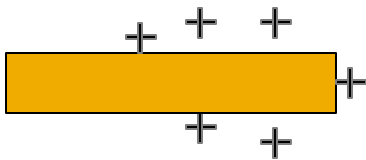
What will happen if we bring a negative rod near the positively charged electroscope?



Charging by Induction

Trial A

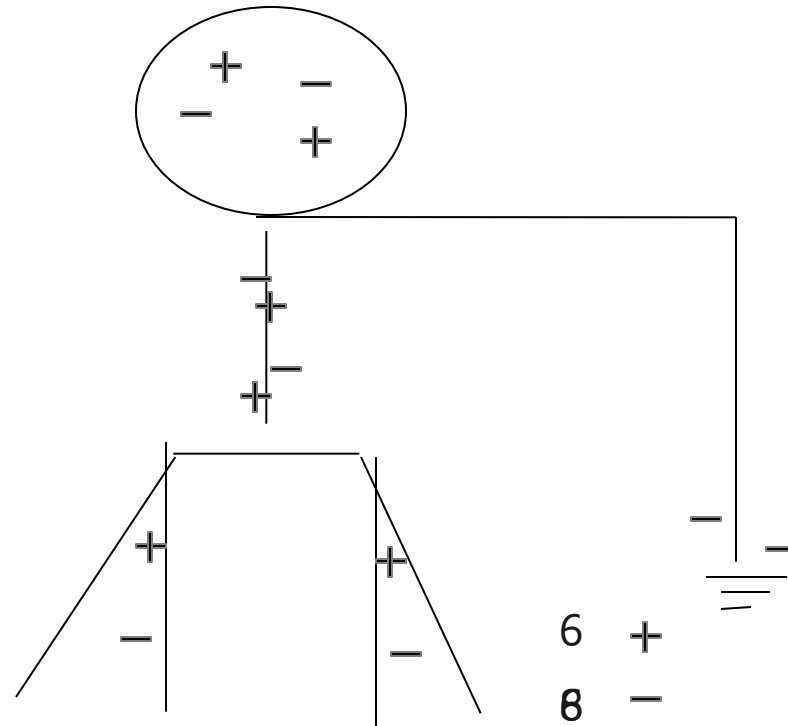
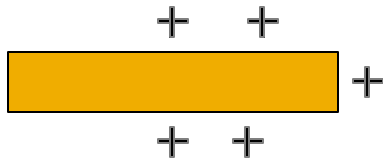
What will happen if we bring a positive rod near the positively charged electroscope?



Charging by Induction

Trial B

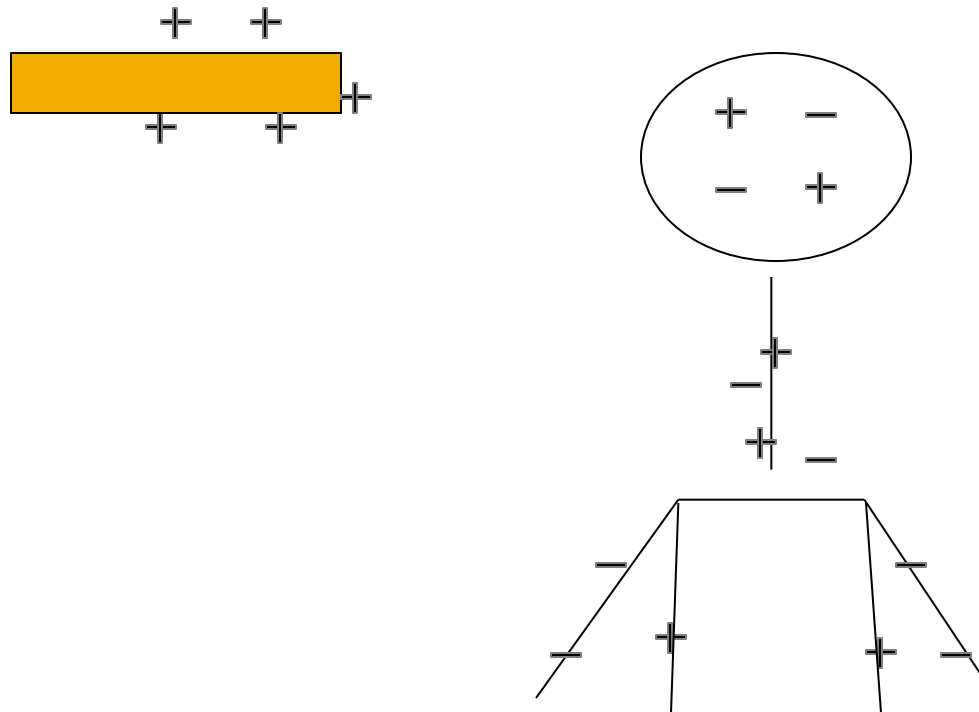
- Positive charge placing charge on neutral electroscope by induction with ground



Charging by Induction

Trial B

Positive rod near the negatively charged electroscope



- Negative rod near the negatively charged electroscope

