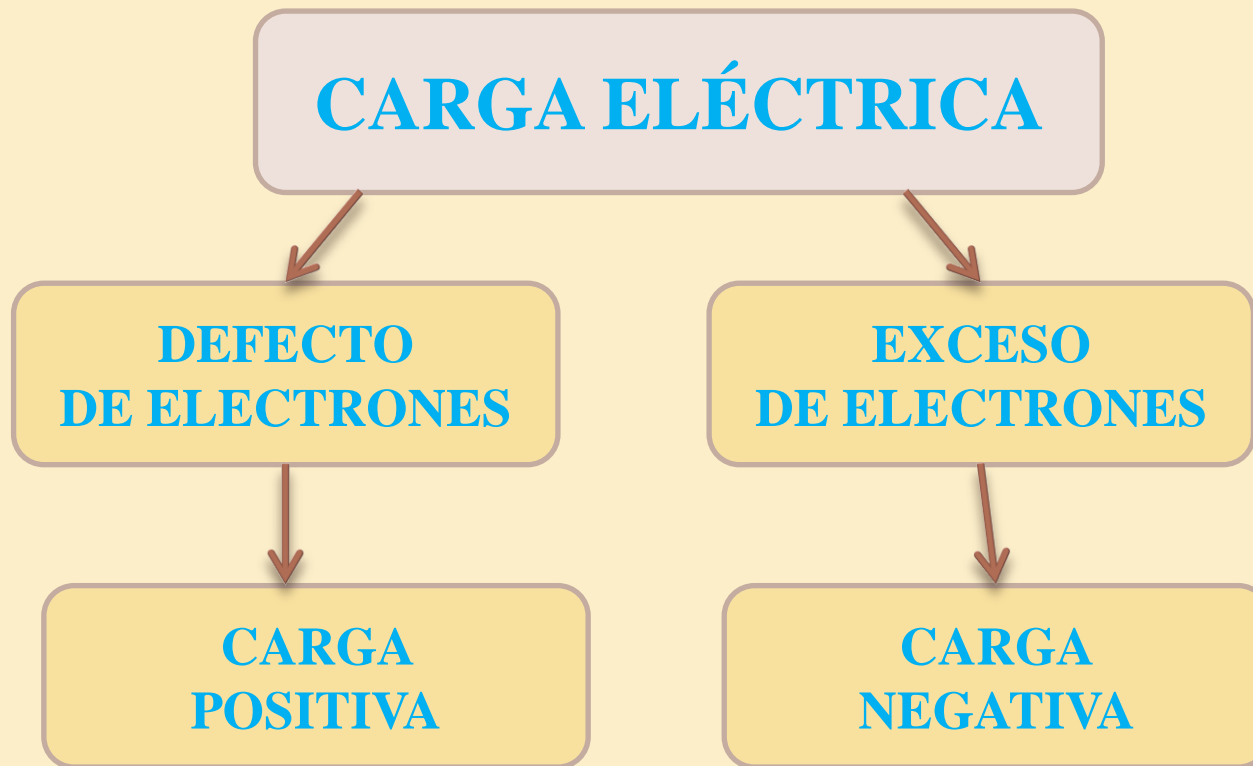


ELECTROSTÁTICA

Estudia las cargas eléctricas en reposo.



Es una magnitud que caracteriza a un cuerpo por el exceso o defecto de electrones que posee después de una interacción con otro.

ÁTOMO

NÚCLEO

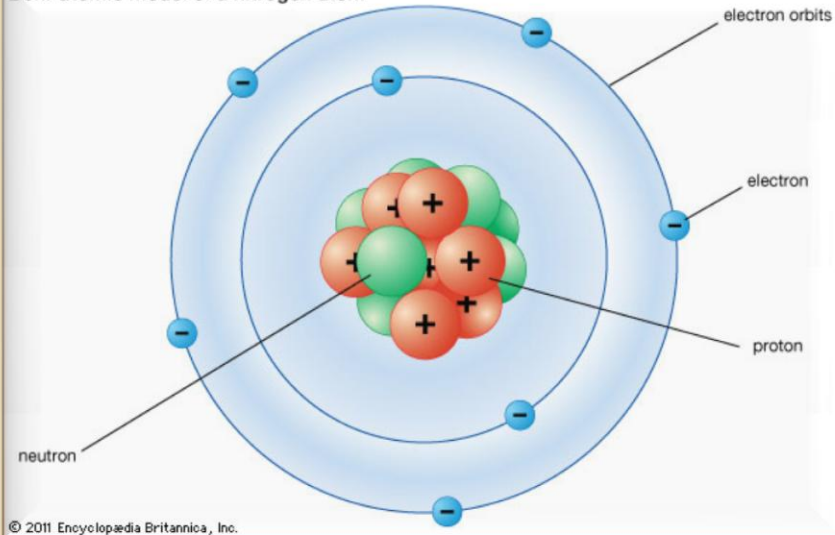
ENVOLTURA NUCLEAR

NEUTRONES

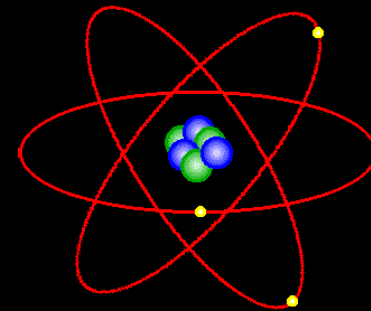
PROTONES

ELECTRONES

Bohr atomic model of a nitrogen atom



STRUCTURE OF AN ATOM

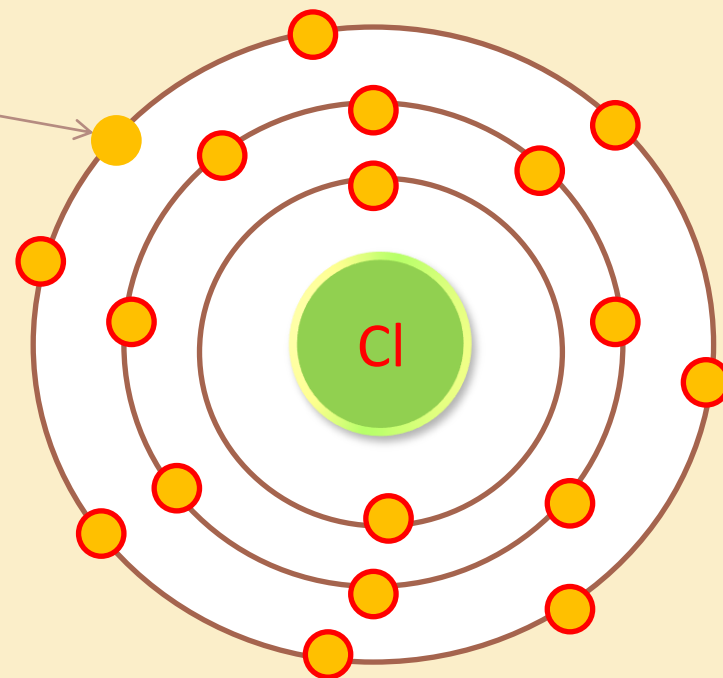
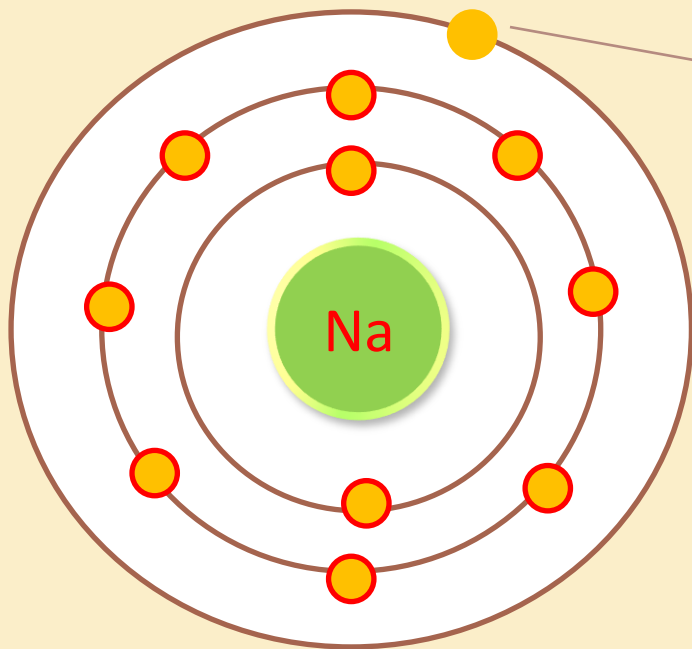


ÁTOMO
DE SODIO

Z=11

ÁTOMO
DE CLORO

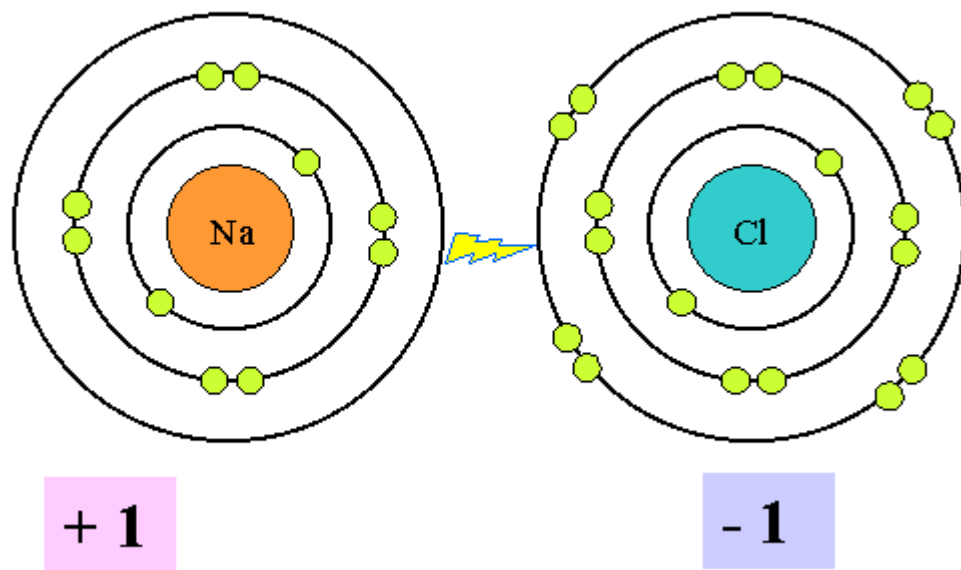
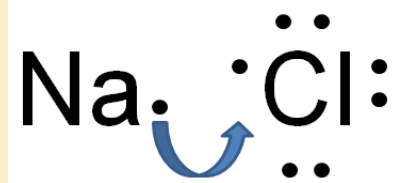
Z=17



+

F

-



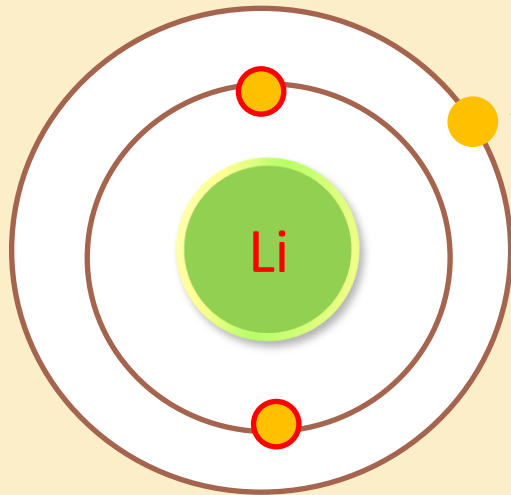
Na

Cl



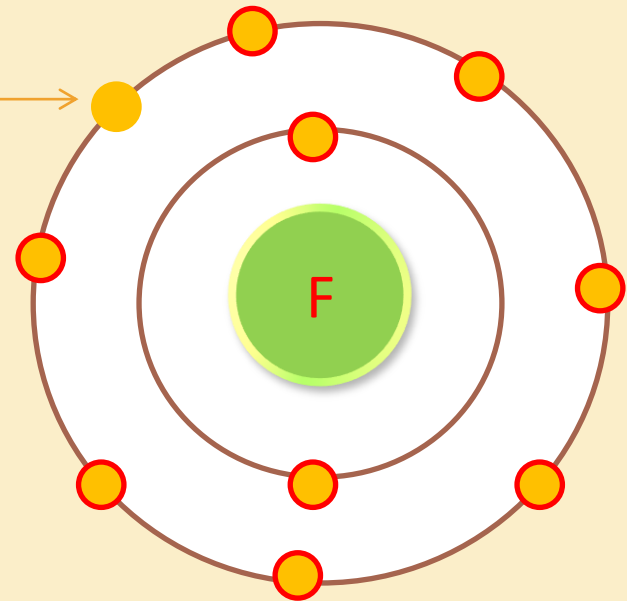
ÁTOMO
DE LITIO

Z=3



ÁTOMO
DE FLUOR

Z=9



+

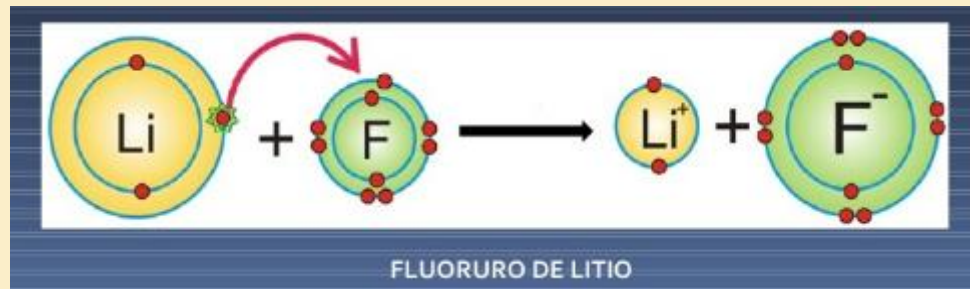
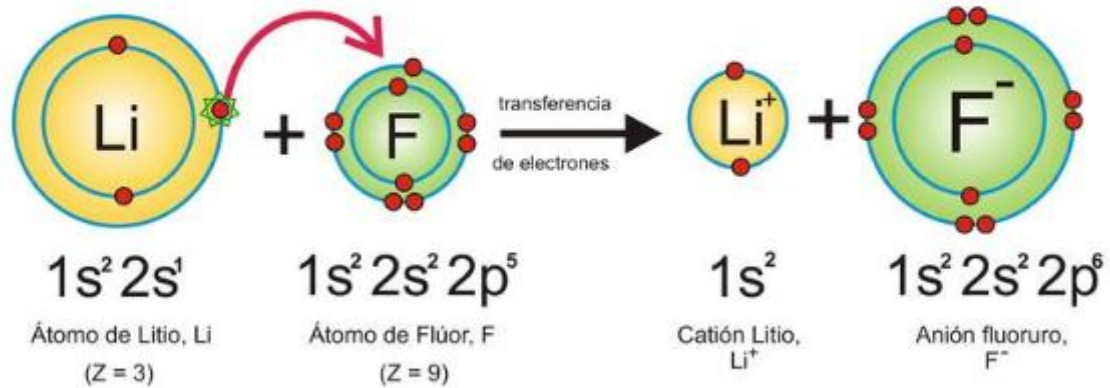


F



-

Enlace iónico



ELECTRIZACIÓN

FROTAMIENTO

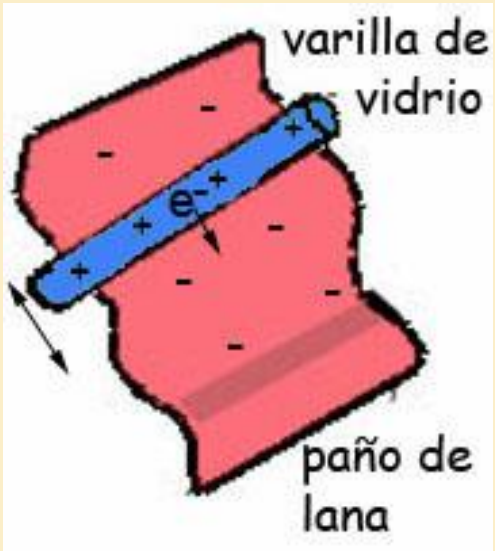
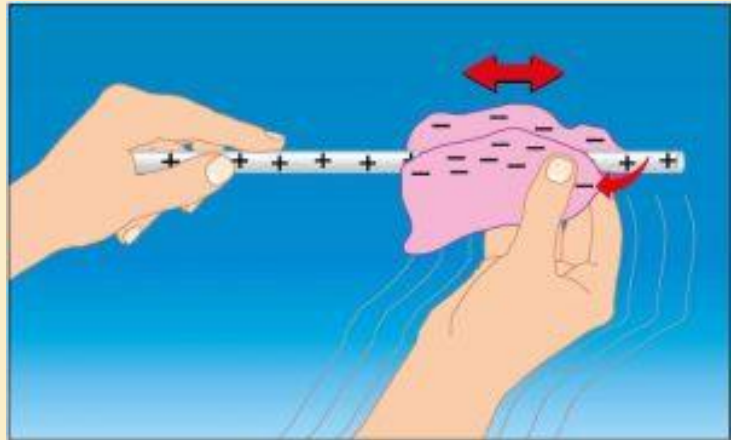
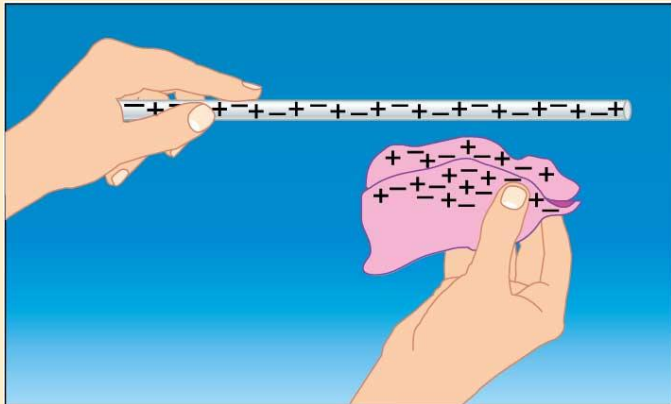
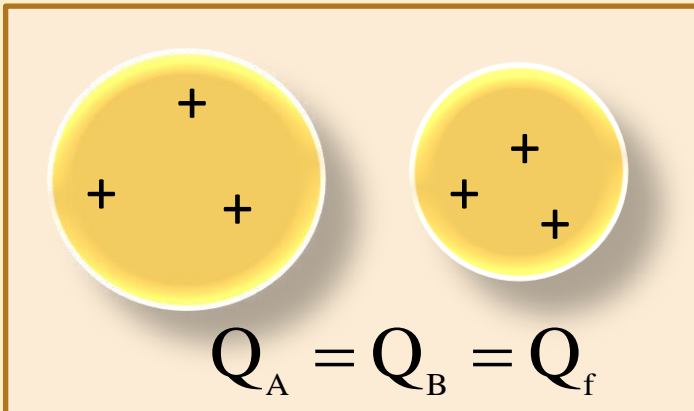
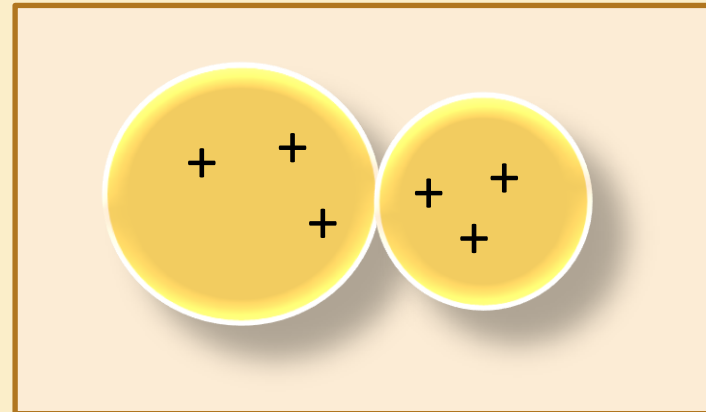
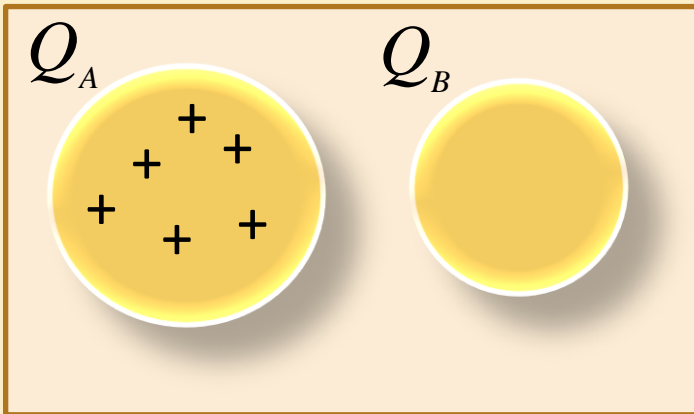


Fig. 6 Barra cargada por frotamiento con un paño. Animación PPI.

ELECTRIZACIÓN

CONTACTO

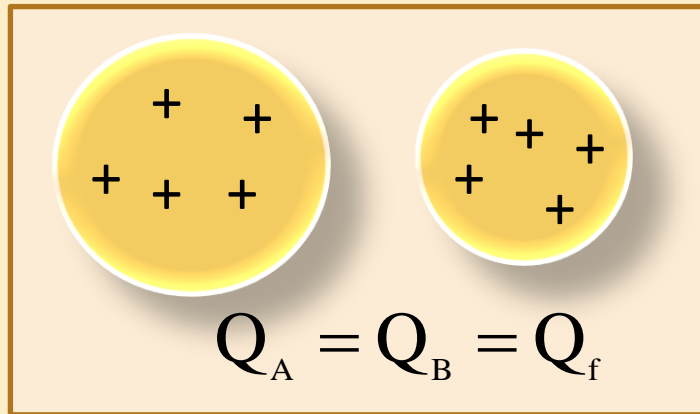
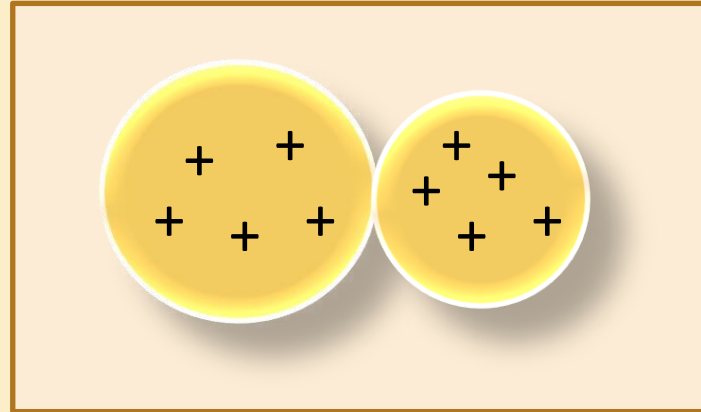
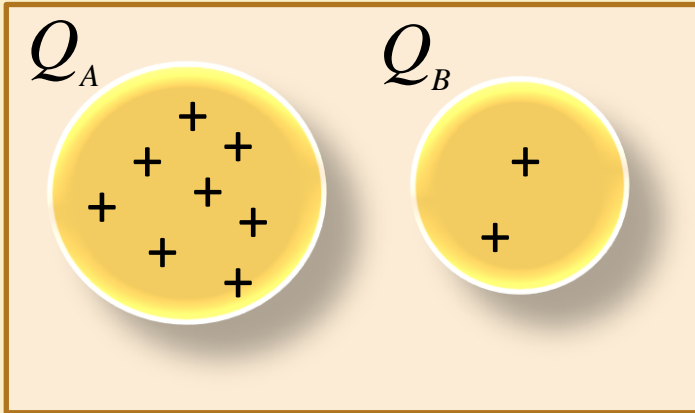
- Este fenómeno se produce cuando dos conductores se tocan, uno cargado y el otro neutro.



$$Q_f = \frac{Q_A + Q_B}{2}$$

$$Q_f = \frac{6p + 0}{2} = 3p$$

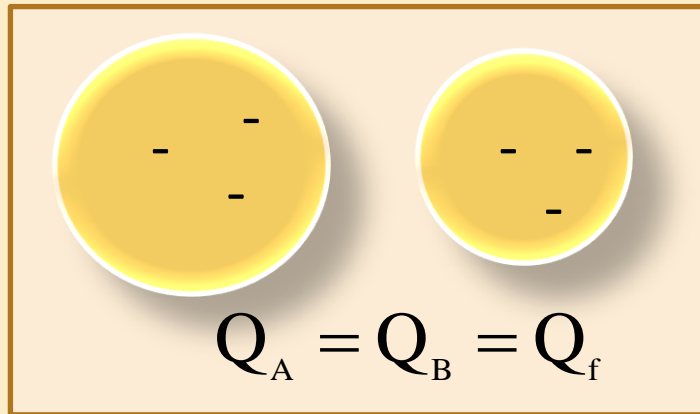
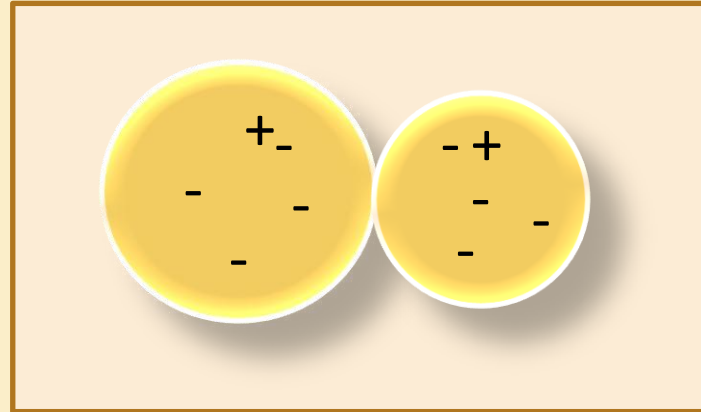
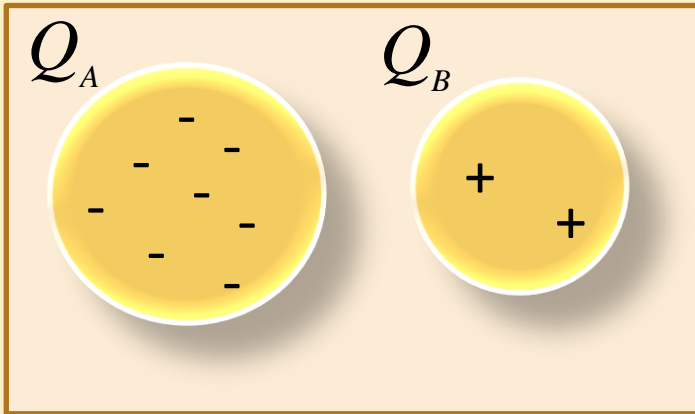
EJEMPLO 2



$$Q_f = \frac{Q_A + Q_B}{2}$$

$$Q_f = \frac{8p + 2P}{2} = 5P$$

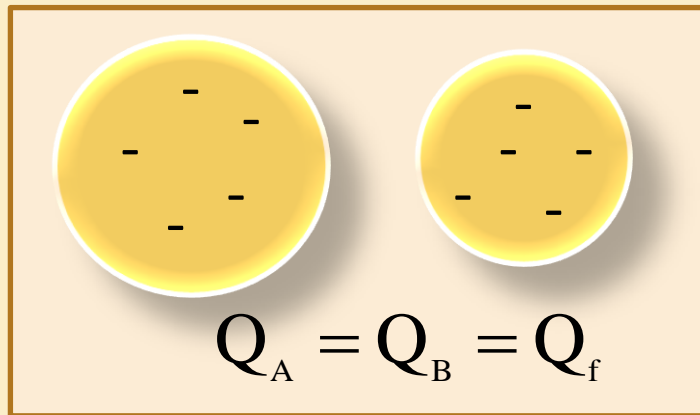
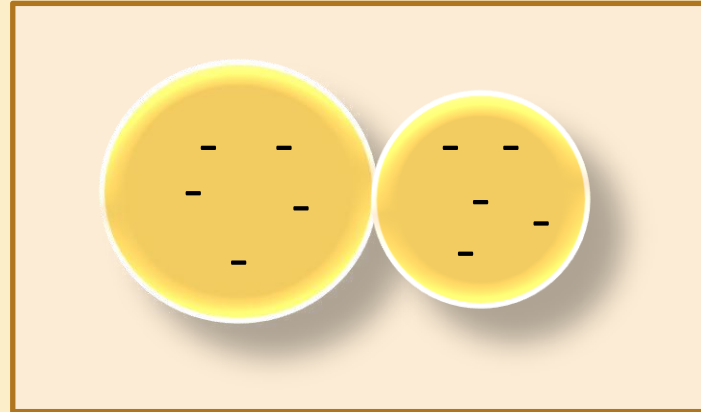
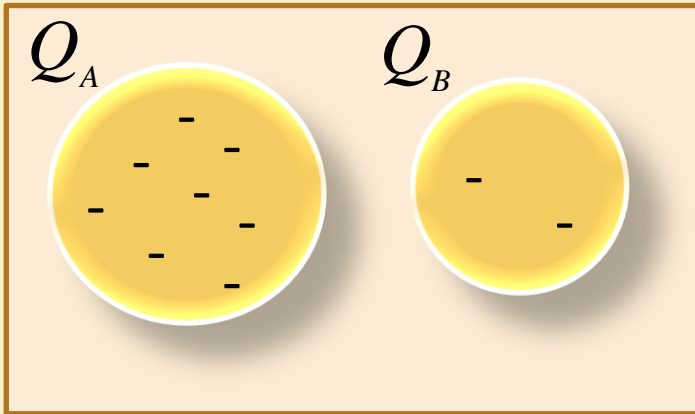
EJEMPLO 2



$$Q_f = \frac{Q_A + Q_B}{2}$$

$$Q_f = \frac{8e - 2P}{2} = 3e$$

EJEMPLO 3

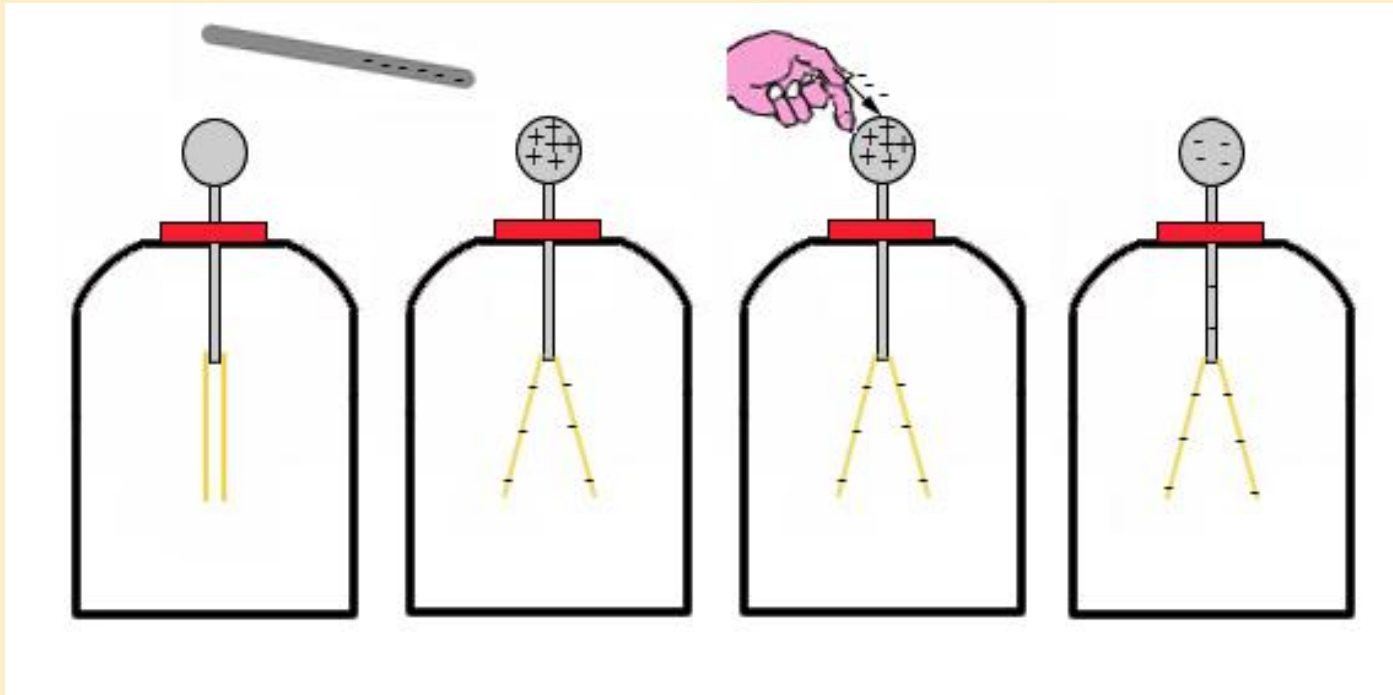


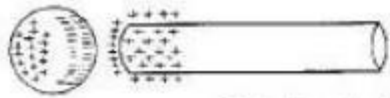
$$Q_f = \frac{Q_A + Q_B}{2}$$

$$Q_f = \frac{8e + 2e}{2} = 5e$$

ELECTRIZACIÓN

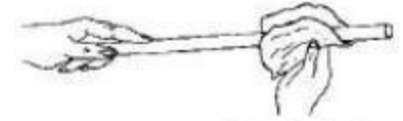
INDUCCIÓN





Electrificación por inducción

POR INDUCCIÓN



Electrificación por frotamiento

POR FROTAMIENTO

ELECTRIZACIÓN



POR CONTACTO



FIN