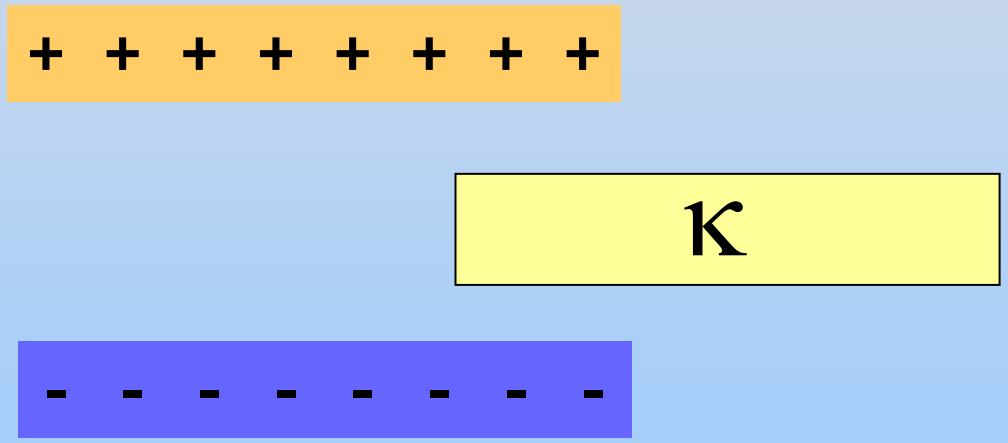
Concept Question: Dielectric

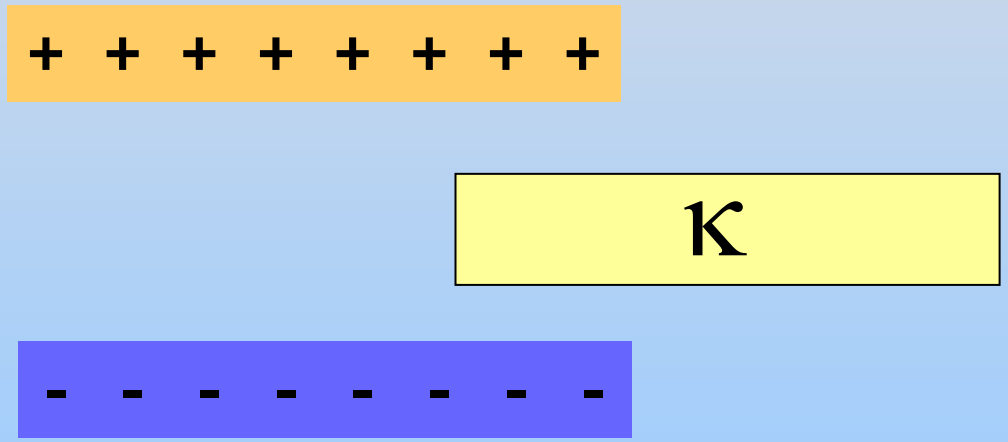
A parallel plate capacitor is charged to a total charge Q and the battery removed. A slab of material with dielectric constant κ in inserted between the plates. The **charge** stored in the capacitor



1. Increases
2. Decreases
3. Stays the Same

Concept Question: Dielectric

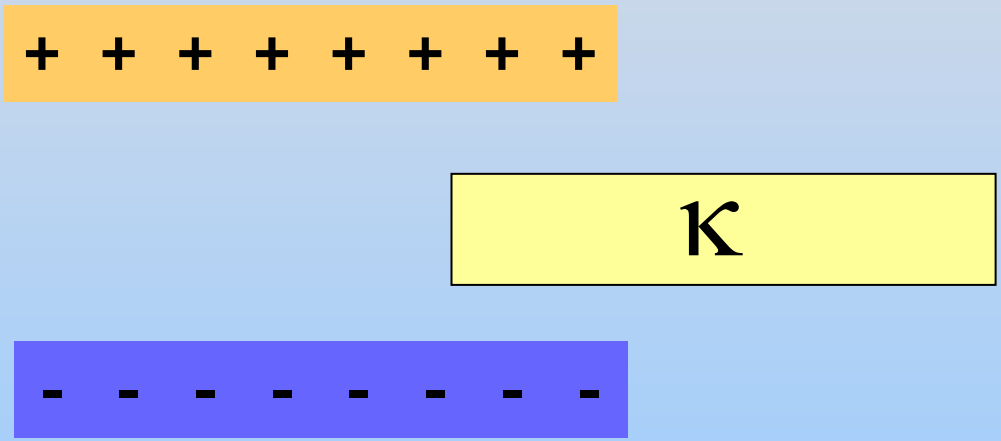
A parallel plate capacitor is charged to a total charge Q and the battery removed. A slab of material with dielectric constant κ in inserted between the plates. The **energy** stored in the capacitor



1. Increases
2. Decreases
3. Stays the Same

Concept Question: Dielectric

A parallel plate capacitor is charged to a total charge Q and the battery removed. A slab of material with dielectric constant κ in inserted between the plates. The **force on the dielectric**



1. pulls in the dielectric
2. pushes out the dielectric
3. is zero

8.02SC Physics II: Electricity and Magnetism

Fall 2010