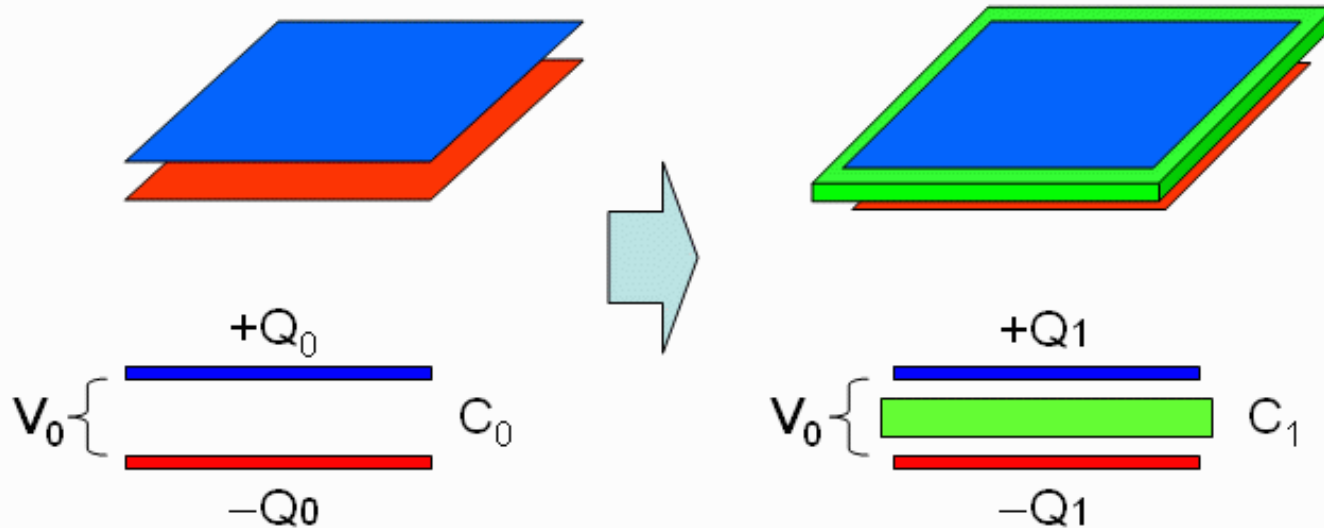


Parallel Plate Capacitor

Two parallel plates of area carry equal and opposite charge Q_0 . The potential difference between the two plates is measured to be V_0 . An uncharged conducting plate (the green thing in the picture below) is slipped into the space between the plates without touching either one. The charge on the plates is adjusted to a new value Q_1 such that the potential difference between the plates remains the same as before.



THE CAPACITOR QUESTIONS WERE TOUGH!

THE PLAN:

We'll work through the example in the prelecture and then do the preflight questions.