

Quiz3, 10 min. <http://www.socrative.com/>, room EM1304, enter your ID

1. Electric field lines go from
 - A. high to low electric potential energy
 - B. high to low electric potential
 - C. low to high electric potential energy
 - D. low to high electric potential
2. An electron moved by electric field force through 1 Megavolt potential difference will
 - A. gain about 1.6×10^{-13} J of kinetic energy
 - B. lose about 1.6×10^{-13} J of kinetic energy
 - C. gain about 1.6×10^{-13} J of potential energy
 - D. have 1.6 mega-electron-volt kinetic energy
3. Capacitors are
 - A. conductors to transmit electric potential energy.
 - B. made of dielectric materials
 - C. devices that store electric charges
 - D. spheres
4. The electric potential energy stored in a capacitor is
 - A. proportional to the potential difference between the two plates
 - B. proportional to the square of the potential difference between the two plates
 - C. proportional to the charge the capacitor holds
 - D. proportional to the square of the capacitance of the capacitor