

ELECTRIC FORCE

- Develop a quantitative model relating all variables affecting electric force.
- Whiteboard:
 - Variables
 - Graphs \rightarrow get to linear and give interpretation of slope!
 - Relationships \rightarrow Overall equation

$$|\vec{F}| = \frac{1}{4\pi\epsilon_0} \left| \frac{q_1 q_2}{r^2} \right|$$

magnitude of force

permittivity of free space

charges

distance between charges

$$k \equiv \frac{1}{4\pi\epsilon_0} \rightarrow \text{Coulomb's constant}$$