Electric Field

$\vec{g} = \lim_{m \to 0} \frac{\vec{F}g}{m}$ m/s^2

$\vec{E}$ = electric field, a measure of house a charge(s) influences the region of space around it; the field lines tell us the direction that a positive test charge will move

Units = $\frac{N}{C}$

Point charge:

$\vec{E} = \frac{kq}{r^2}$

$E = \frac{F}{q}$

$F = qE = eE$

Goes in direction that a positive will go to

Uniform $\vec{E}$ field:

- All lines are paralle
- $|\vec{E}|$ is same everywhere