Vocabulary: Coulomb Force (Static)

Vocabulary

- Coulomb's law – a law that describes the *electrostatic force* between two charged objects.
  - Coulomb's law states that the electrostatic force between two charged objects (F_q) is equal to a constant (k) multiplied by the product of the charges (q_1 and q_2) divided by the square of the distance between them (R):

$$F_q = k\frac{q_1 q_2}{R^2}$$

- Electrostatic force – the force between charged objects.
  - Opposite charges (positive and negative) will attract one another.
  - Similar charges (positive-positive or negative-negative) will repel one another.
- Vector – a representation that specifies the direction and magnitude of a quantity.
  - In physics, vectors are used to represent displacement, velocity, acceleration, force, and other quantities that have a specific direction.
  - Vectors are represented visually by arrows.