

Coulomb's Law

Read from Lesson 3 of the Static Electricity chapter at The Physics Classroom:

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NOT Connection: Static Electricity: sublevels 8 and 9

Coulomb's Law can be stated in equation form as

$$F = \frac{kQ_1Q_2}{r^2}$$

This equation can be used as an *algebraic recipe* for solving computational problems or as a *guide to thinking* about how an alteration in the quantity of charges or the distance between charged objects affects the amount of attractive or repulsive force.

Equations
provide guides
to thinking.



Using Coulomb's Law as a "Guide to Thinking"

Alteration in the Quantity of Charge

1. Two charged objects have a repulsive force of 360 N. If the charge of one of the objects is doubled, then what is the new force?
2. Two charged objects have a repulsive force of 360 N. If the charge of both of the objects is doubled, then what is the new force?

Alteration in the Distance between Charged Objects

3. Two charged objects have a repulsive force of 360 N. If the distance separating the objects is doubled, then what is the new force?
4. Two charged objects have a repulsive force of 360 N. If the distance separating the objects is tripled, then what is the new force?
5. Two charged objects have an attractive force of 360 N. If the distance separating the objects is quadrupled, then what is the new force?
6. Two charged objects have a repulsive force of 360 N. If the distance separating the objects is halved, then what is the new force?

Alteration in both the Quantity of Charge and the Distance

7. Two charged objects have a repulsive force of 360 N. If the charge of one of the objects is doubled, and the distance separating the objects is doubled, then what is the new force?
8. Two charged objects have a repulsive force of 360 N. If the charge of both of the objects is doubled and the distance separating the objects is doubled, then what is the new force?
9. Two charged objects have an attractive force of 360 N. If the charge of one of the objects is increased by a factor of four, and the distance separating the objects is doubled, then what is the new force?
10. Two charged objects have an attractive force of 360 N. If the charge of one of the objects is tripled and the distance separating the objects is tripled, then what is the new force?

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