

Electrostatics

Students will be able to explain, discuss and calculate the properties of electrostatics.

Student Targets

1. I can identify the charge on each sub-atomic particle.
2. I can identify which sub atomic particle moves in a conductor.
3. I can compare and contrast conductors and insulators.
4. I can predict how charges will redistribute based on charging by contact and induction.
5. I can predict attraction and repulsion between charged and neutral objects and the processes that cause them.
6. I can apply Coulomb's Law.
7. I can describe an electric field and identify the electric field diagrams for a one or two charge system.
8. I can identify the direction of the force on a charged object in an electric field.
9. I can calculate the magnitude and direction of the force on a charge in an electric field.
10. I can calculate the magnitude and direction of the electric field produced by an electric charge.*

*Pre-AP Physics Learning Target