

## Electricity

### ➤ Charges

Charge is an inherent property of matter. An object having charge interacts only with another object having charge via electrostatic force. Charges are of two kinds namely positive and negative. Opposite charges attract and similar charges repel.

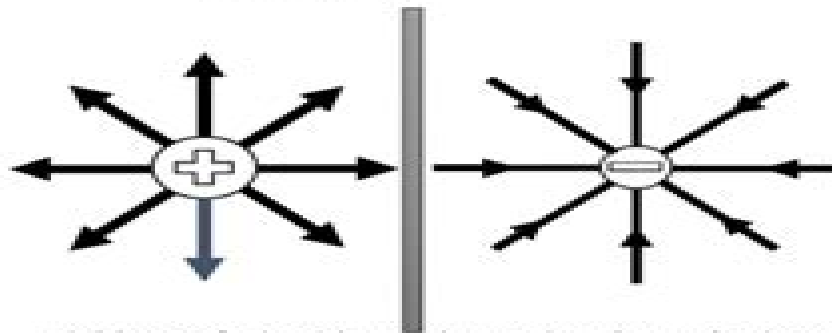
### ➤ Electric field

It's the area of effect where if a charge is placed it will experience an electrostatic force.

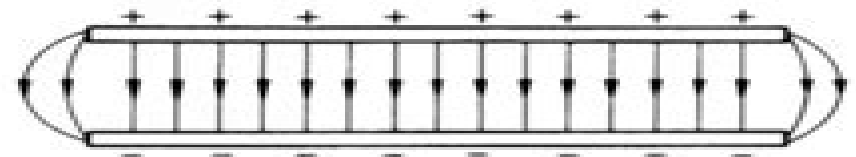
### ➤ Electric field line

The electric field is represented using imaginary lines which help you visualise the electric field. These lines are known as the electric field line. Along with being a visual aid they also provide us with two other information, how strong the field is and in which direction the force is acting on a positive test charge.

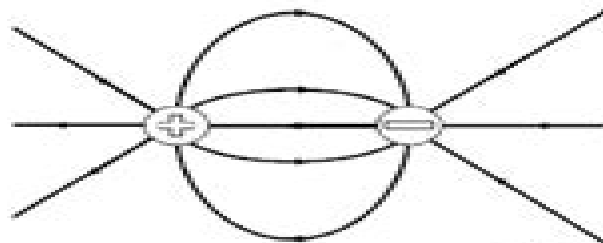
The closer the lines are the stronger the field. The arrowhead on the field lines denote the direction of the force on a positive charge and hence are always shown to be flowing from positive to negative. The field lines are always perpendicular to the surface they are arising from.



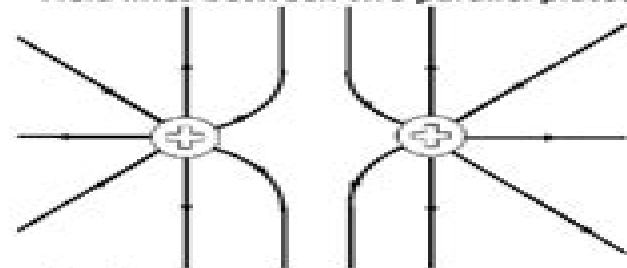
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Field lines between two parallel plated



Fieldline between two charged spheres



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