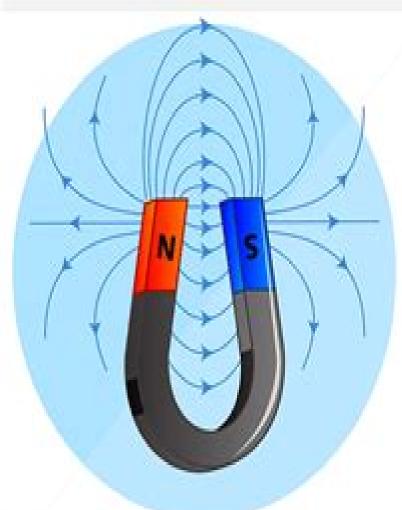
# What is a Magnetic Field?



The magnetic field is an area surrounding a magnet or a moving charged particle where magnetic forces can influence other objects.

It is characterized by the direction and strength of the forces exerted. In physics, magnetic fields are represented by lines of force, indicating the field's intensity and direction.

Earth itself has a magnetic field, crucial for navigation using compasses. In electromagnetism, electric currents generate magnetic fields, playing a pivotal role in motors and transformers.

Understanding magnetic fields is fundamental to various scientific and technological applications across multiple disciplines.



# **Role Of Magnetic Fields In Physics Ast**

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