SCIENCE

MAGNETIC EFFECT OF CURRENT

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There are three effects of electric current. They are magnetic effect, heating effect, and chemical effect. When an electric current flows through a wire a magnetic field is generated around the wire and this can be determined by the deflection of a compass. The magnetic field has a direction along with a magnitude. If the electric current flows in a direction north to south the direction in which the magnetic compass will deflect is clockwise implying that the direction of the magnetic field is dependent on the direction of flow of the electric current. Conventionally it is taken that magnetic lines emerge from the north pole and merge at the south pole. Magnetic field lines from two magnets cannot cross each other. The magnitude of the magnetic field is resla.

Electricity and magnetism are bound to each other, and it is proven that it produces a magnetic effect when the electric current passes through the copper wire.