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## Magnets

1. What happens to a bar magnet in a uniform magnetic field?
2. What is the magnetic polarity of the Earth's north pole?
3. What must be the units of magnetic field?
4. A particle with charge  $q$  has an initial velocity  $\vec{v}$  perpendicular to uniform magnetic field  $\vec{B}$ . Describe its subsequent path, quantitatively if possible.