Name: _____ Date: _____

Fun with Magnets

Q1. Prove with the help of an experiment that a freely suspended magnet comes to rest in the north-south direction.

Ans. _____

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Q2. Show with help of an activity that the magnet has two poles.

Ans. _____

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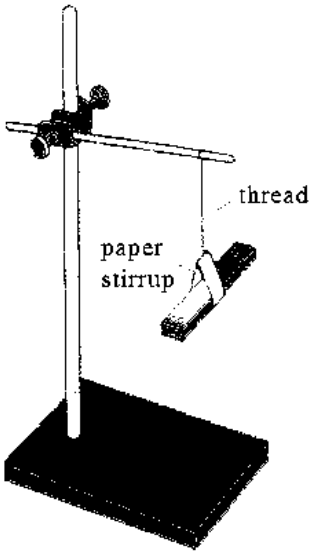
Fun with Magnets

Q1. Prove with the help of an experiment that a freely suspended magnet comes to rest in the north-south direction.

Ans. Take a bar magnet. Put a mark on one of its ends for identification. Now, tie a thread at the middle of the magnet and suspend it freely from a wooden stand. The magnet comes to rest in the north-south direction after some time. Rotate the magnet in other directions and note the final direction in which it comes to rest. We will find that the magnet always comes to rest in the north-south direction.



Q2. Show with help of an activity that the magnet has two poles.

Ans. The two ends of a magnet where the magnetic force is the strongest are called the poles of the magnet. A magnet has two poles.
Spread some iron filings on a sheet of paper. Now, place a bar magnet on this sheet. Pick up the magnet and observe how the iron fillings are distributed all over the magnet. We find that most of the iron filings are attracted towards the two ends of a bar magnet. These ends are the poles of the magnet.