



Create a Compass

0507.12.1 Explain and give examples of how forces act at a distance.

Materials Needed:

Sewing needle

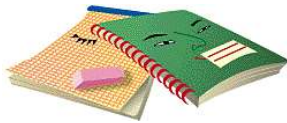
Small bar magnet

Small piece of cork

Small glass bowl of water

Procedure:

1. Run the magnet over the needle 20 to 40 times, always stroking it in the same direction.
2. Place the needle carefully on top of the cork. Be careful!
3. Float the cork and needle in your bowl of water.
4. Let the water's surface become calm. Then turn the needle in a different direction and then release it. What happens?
5. Your needle will be pointing North and will turn back to North if you move it.



Now write about what happened in your Science Journal.