

ACTIVITY -2

- **Experiment:** Maximum Strength of a Magnet is at its Poles
- **Aim:** To show that the maximum strength of a magnet is concentrated at its poles.
- **Materials Required:**
 - i. Bar magnet:
 - ii. Iron filings or iron pins
 - iii. White sheet of paper/cardboard
- **Procedure:**
 - i. Place the bar magnet on a table.
 - ii. Cover it with a white sheet of paper or cardboard.
 - iii. Sprinkle iron filings evenly over the paper.
 - iv. Gently tap the paper.
 - v. Observe the arrangement of iron filings around the magnet.
- **Observation:** A large number of iron filings stick near the two ends of the magnet, while fewer filings stick at the middle.
- **Conclusion:** The magnetic strength is maximum at the poles (ends) of the magnet and minimum at the center.
- **Precautions:**
 - i. Sprinkle iron filings carefully and evenly.
 - ii. Do not shake the paper too much.
 - iii. Keep the magnet dry and clean.