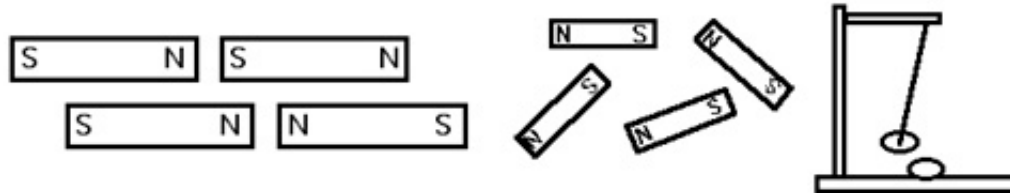


## Lab: Magnetic Fields

Name \_\_\_\_\_ Per. \_\_\_\_\_

**Purpose:** To investigate magnetic fields and their interactions.

1. Take two bar magnets and find their polarity by suspending them from a thread and seeing which end points Northward. **Pay no attention** to the N and S stamped on the magnets.
2. Using iron filings, find and sketch the fields for various interactions.
  - a. Single magnet
  - b. Two magnets
    - i. attracting
    - ii. opposing
  - c. Three and four magnets in various original orientations.



3. Trace the fields by using a compass and sketch it.
4. Investigate the Dangler Magnet.
5. Critique and sketches.