

Bar Magnet Fields - Exploration Lab

1. Put a piece of white paper under the magnets.
2. Put a clear sheet over the magnets.
3. Sprinkle the metal filings gently and evenly over the clear plastic.
4. In your lab notebook, sketch the pattern of filings for each of the configurations below. Make your drawings fairly large (3 or less to a page) and neat. Be sure to label the poles, draw the field inside the bar magnets, between the bar magnets (if there are two), and the field in the region around the magnets
5. Indicate the **direction** of the fields (by convention from North Pole to South Pole) on each diagram by adding arrows to your diagrams.

