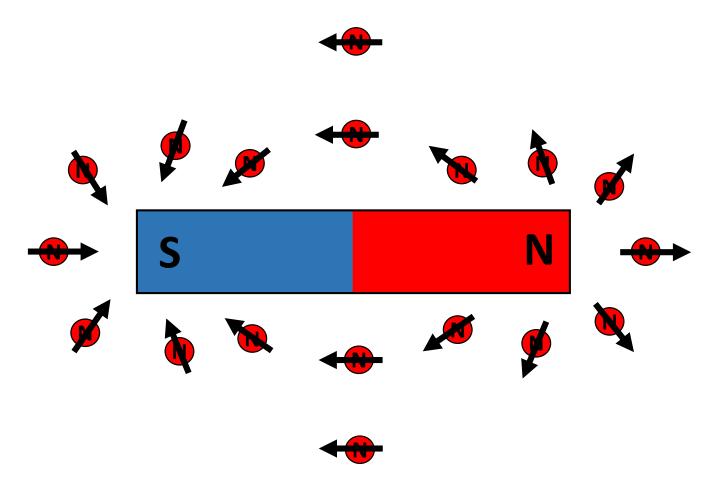


How can we picture a magnetic field?

A magnetic field is described (illustrated) by a series of lines (called magnetic field lines) that show how a **North** pole would be affected within that region.



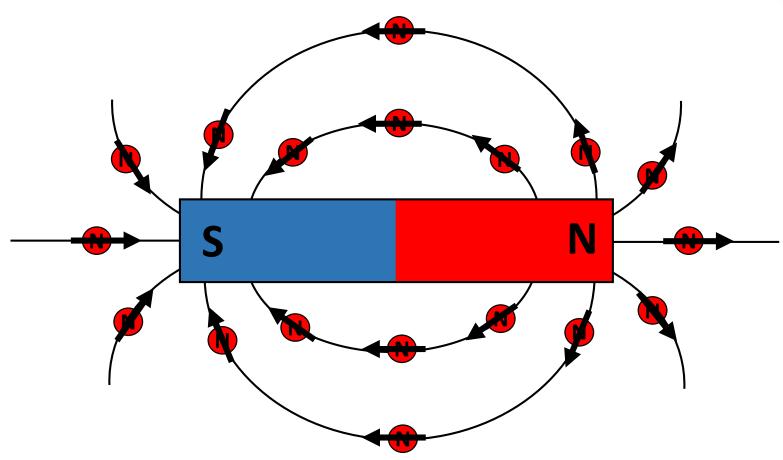
In what direction would a North pole be pushed/pulled if it were near the following bar magnet?





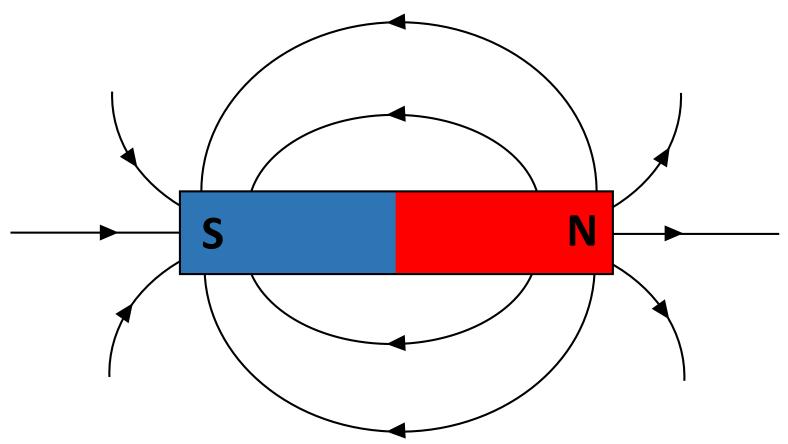
The magnetic field is illustrated with a few lines that show the pattern,



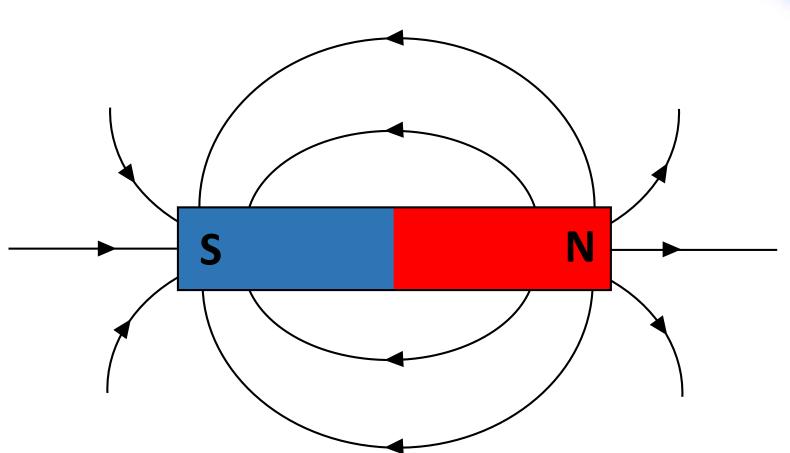


The magnetic field is illustrated with a few lines that show the pattern, with arrowheads to show the direction of the magnetic push.

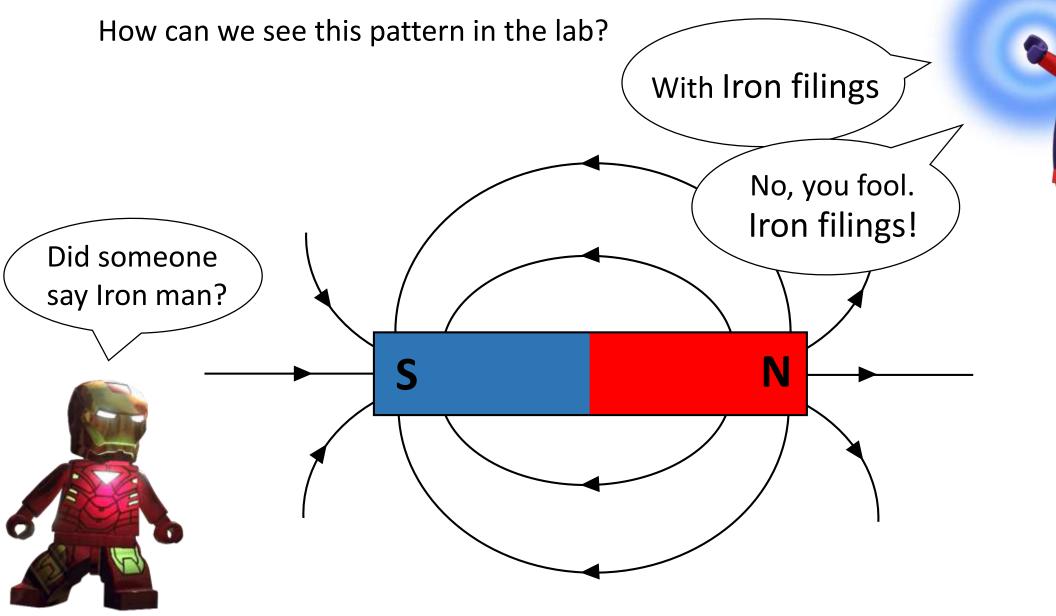




How can we see this pattern in the lab?









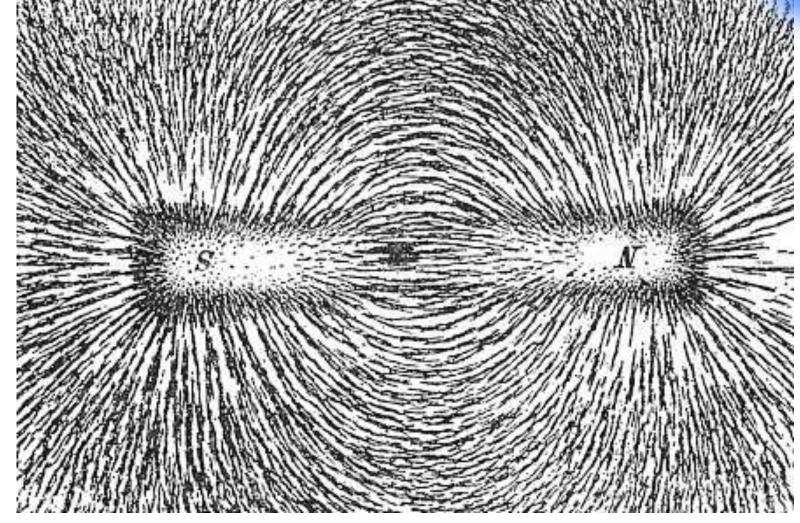


The iron filings become magnetized, then act like tiny compasses that line up in the magnetic field.





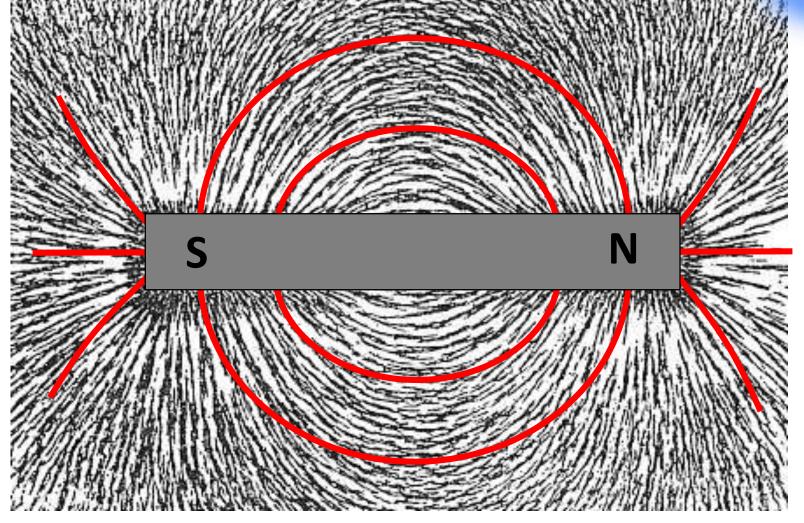
Iron filings over a bar magnet.





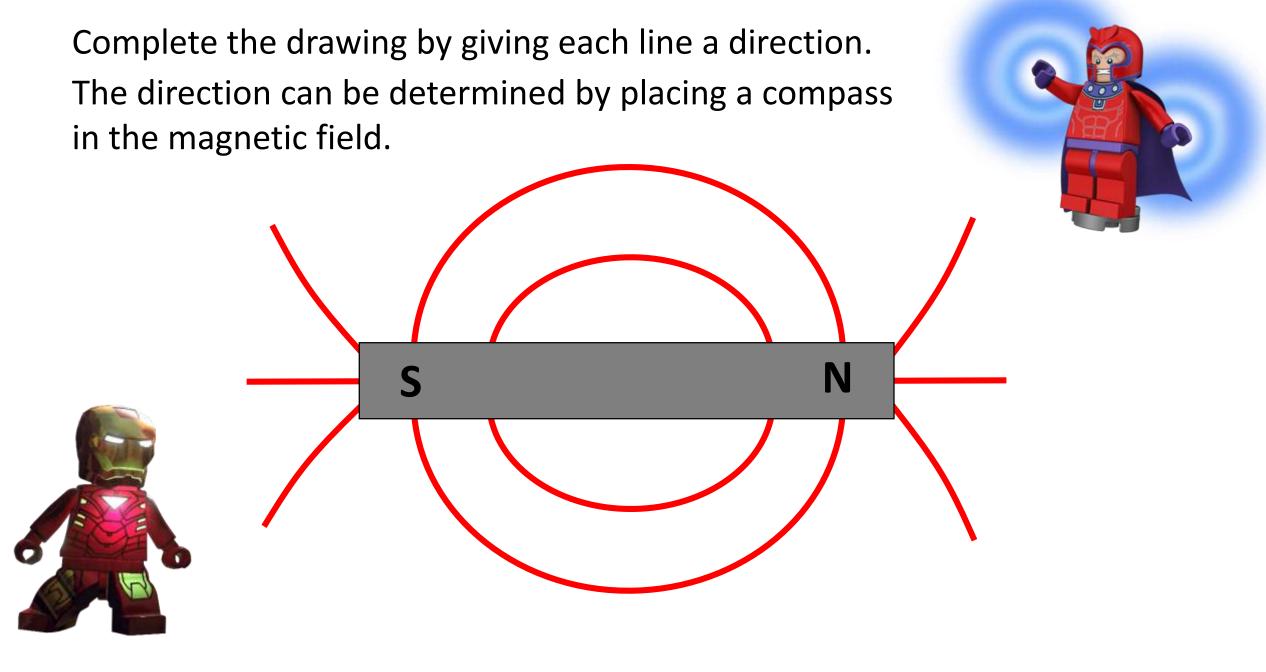


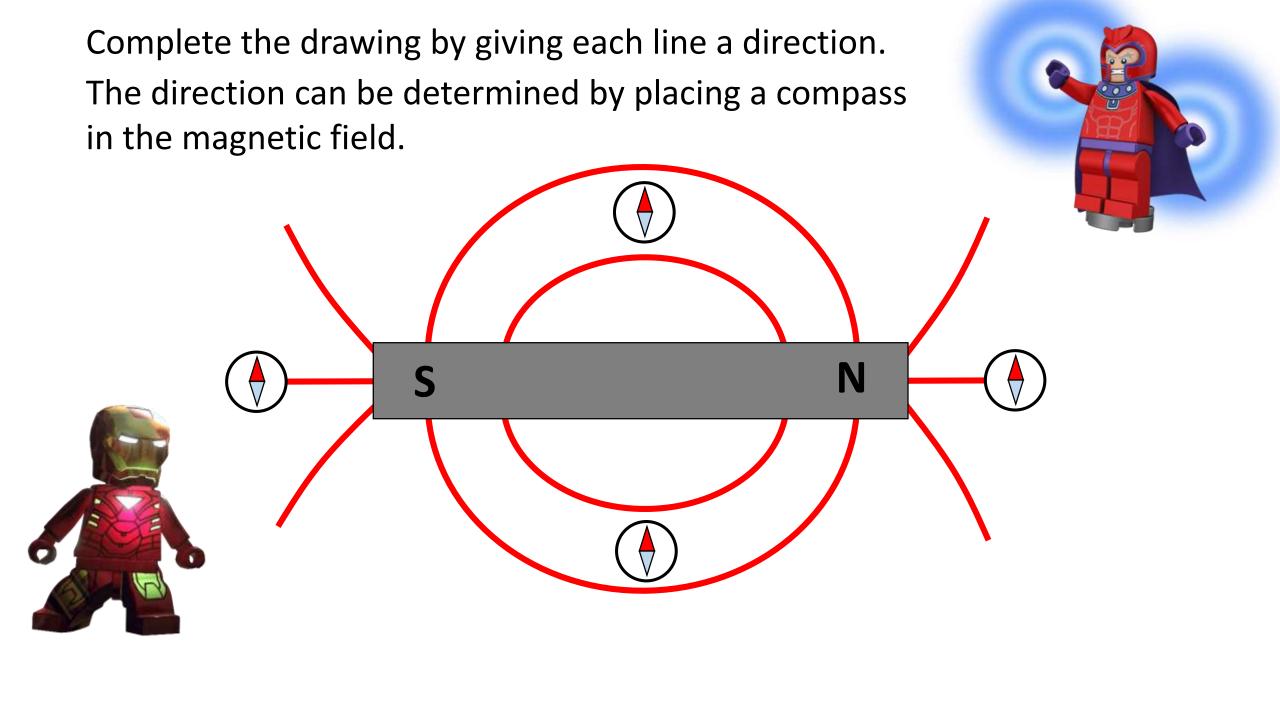
Look at the pattern, then draw a few lines (6 - 12) to show the basic shape

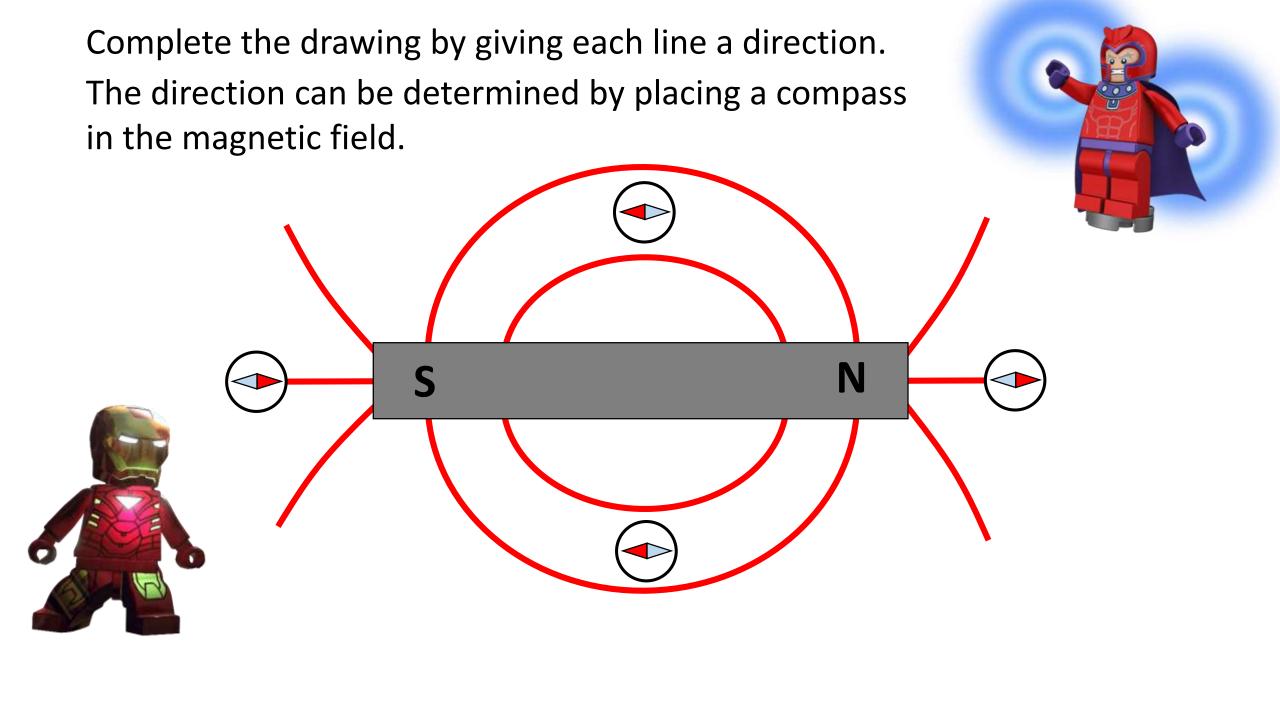


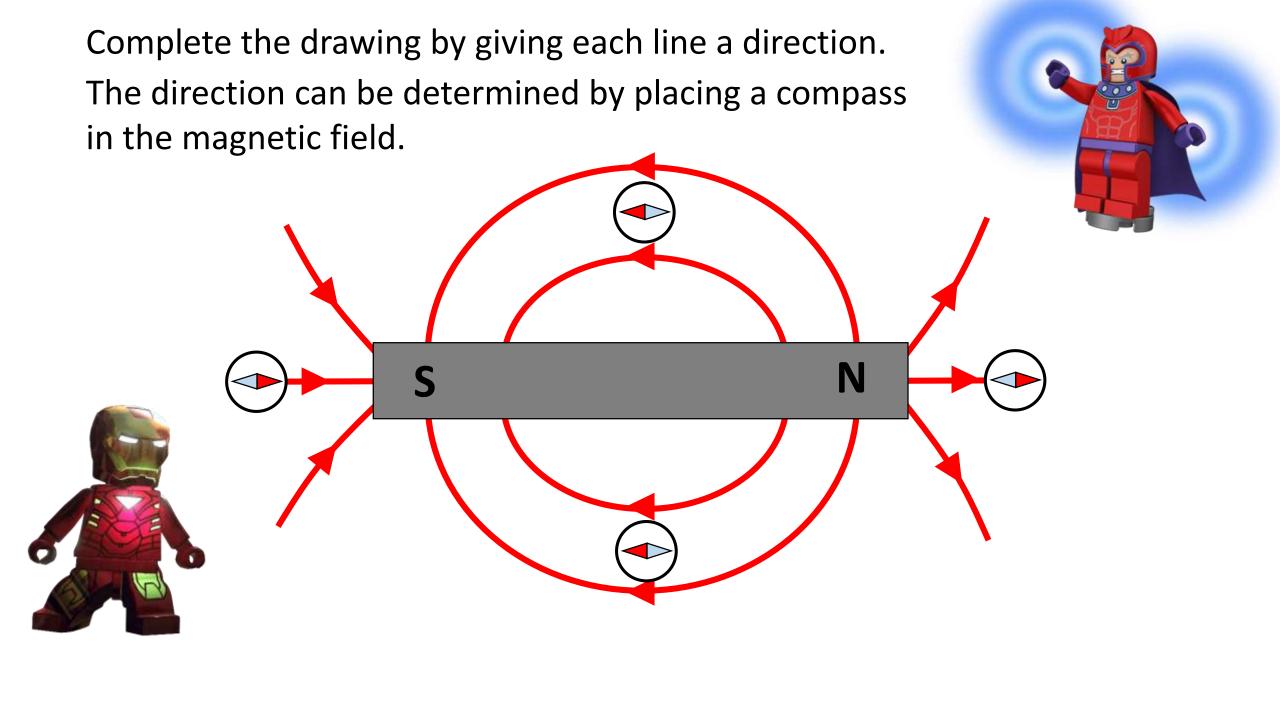


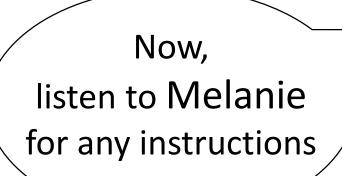














Then you'll go do your lab







Then you'll go do your lab





