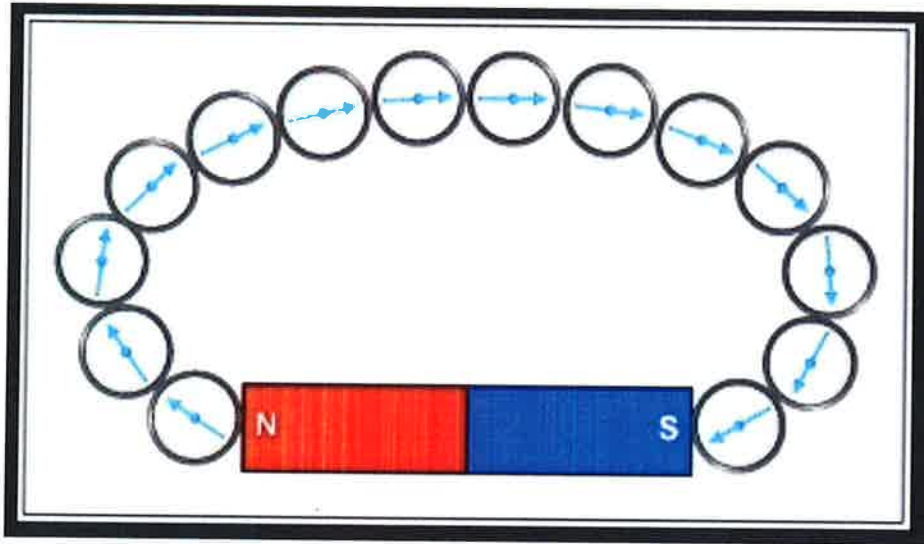


Magnetic Field lines



(There are many more field lines above and below this magnet. Go ahead and draw a few more!)

Field lines outside a magnet travel from the north (N in red) pole to the south (S in blue) pole. *(See how the little blue compass arrows are aligned with the field lines in the picture above.)*

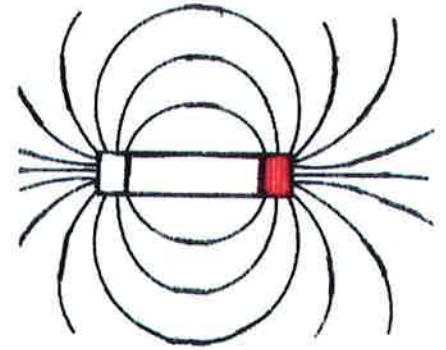
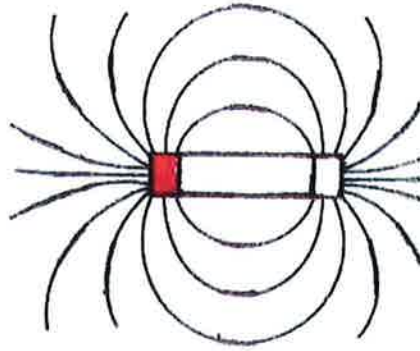
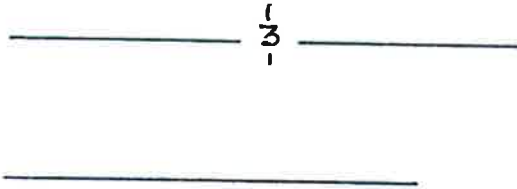
Inside a magnet, the field lines travel from the south pole to the north pole.

Knowing the direction the field lines travel can help to understand why the poles of magnets attract or repel. *(When the field lines of the poles are in the same direction, the poles will attract, when they are in opposite directions the poles will repel. See next handout for more examples and practice.)*

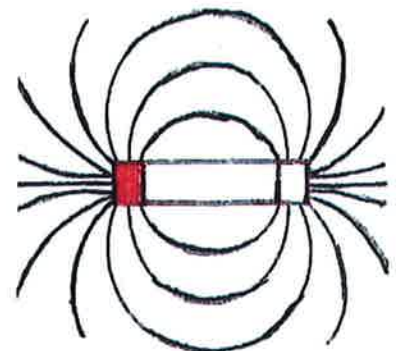
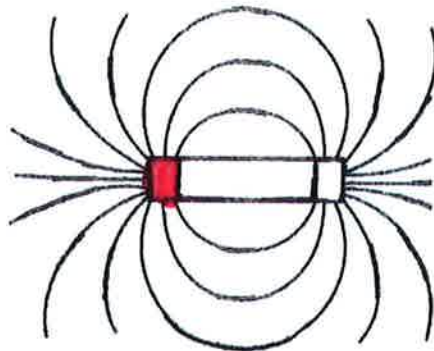
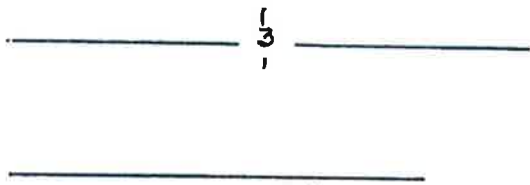
Using Magnetic field lines to predict^λ attraction vs. repulsion

Draw in the directional arrows (>) or (<) for all the field lines in the following pairs of magnets.

A)



B)



C)

