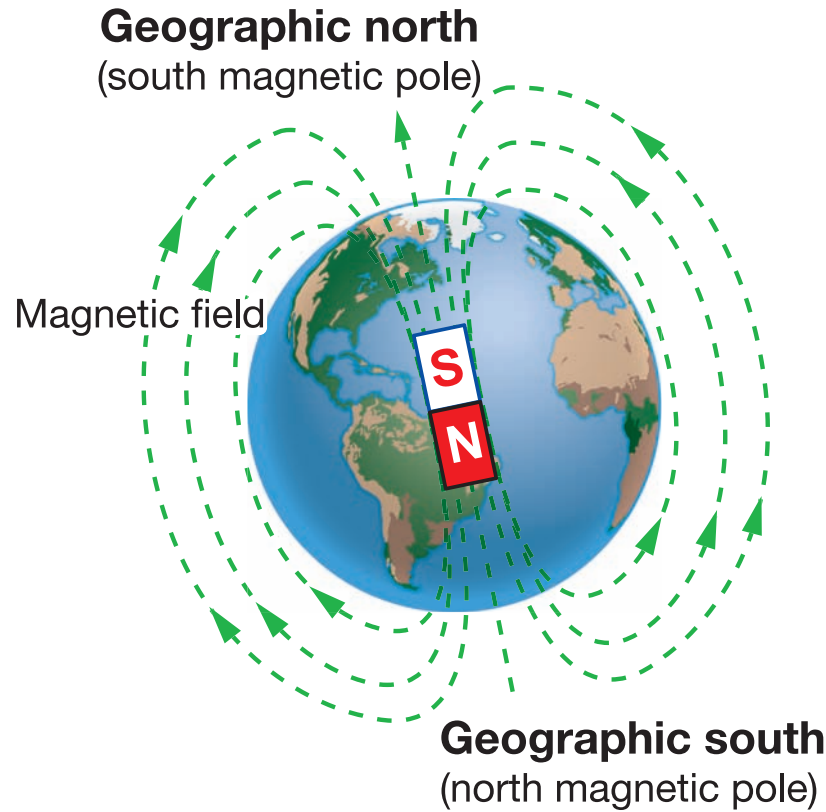
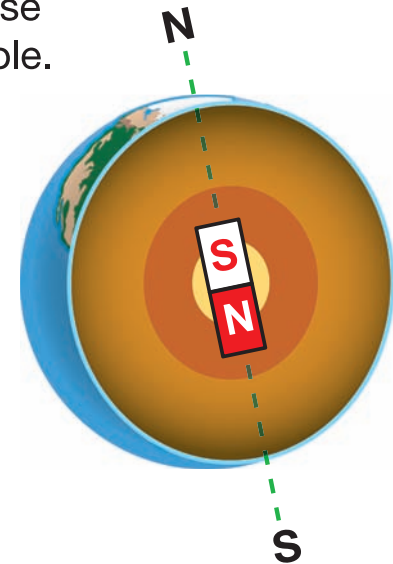
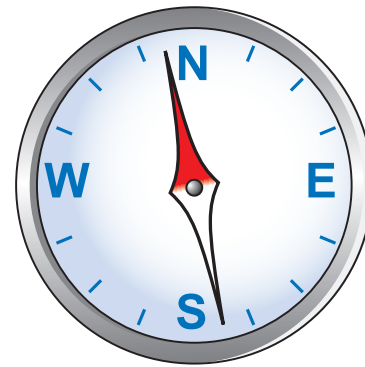


Earth's Poles

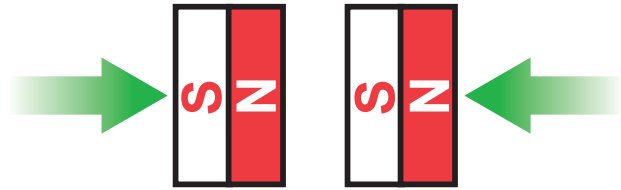


The north pole of a compass needle points to Earth's geographic north because it is a south magnetic pole.



The Magnetic Force

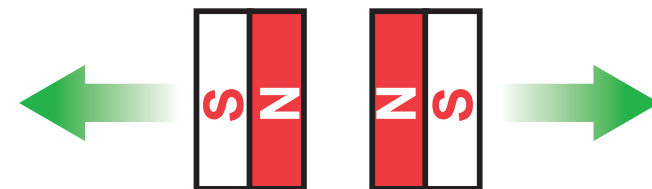
Three Interactions Between Two Magnets



N-S
Attract

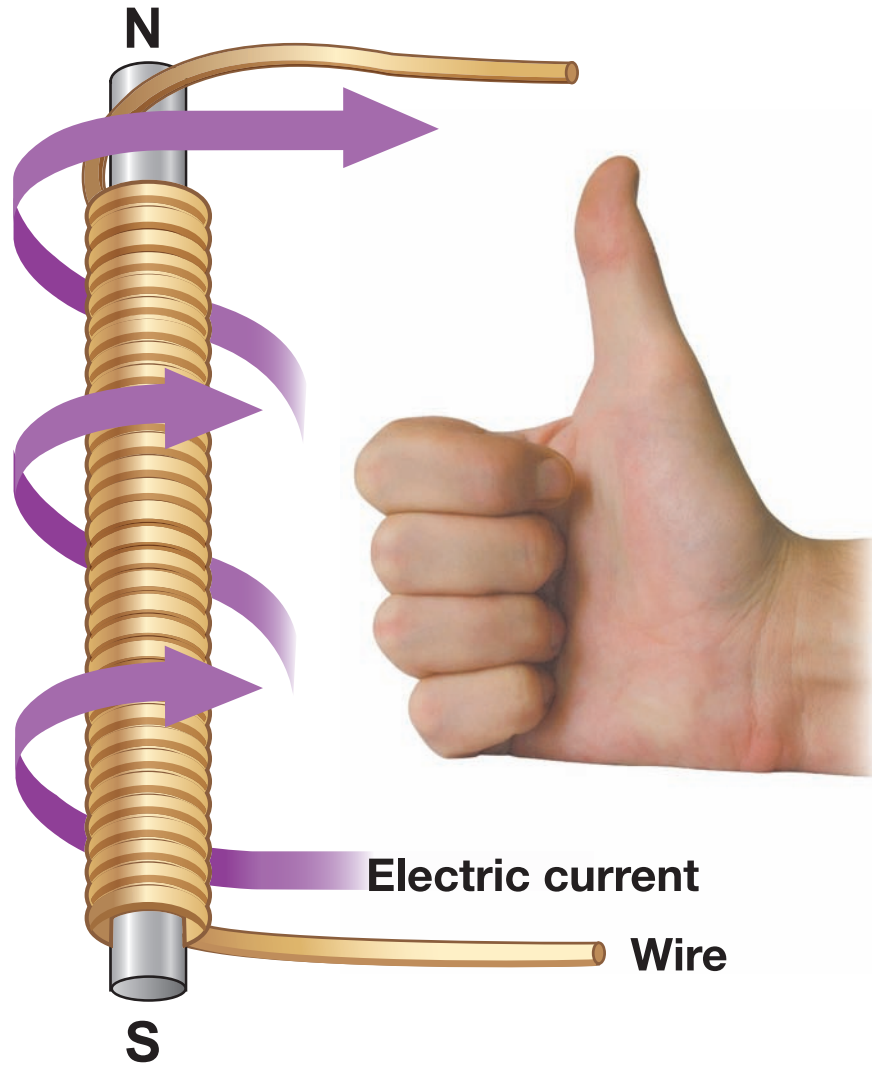


S-S
Repel



N-N
Repel

Electromagnet



Nonmagnetic vs. Magnetic Materials

