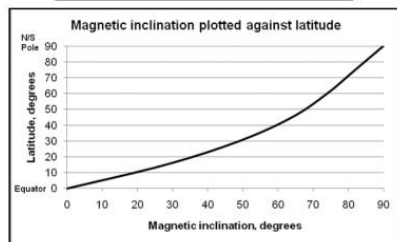
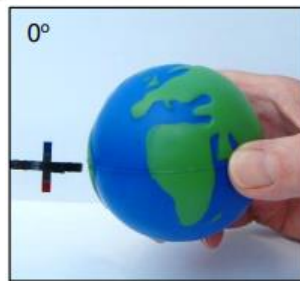
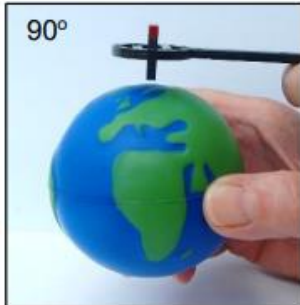


Magnetic Earth



Magnetic inclination plotted against latitude.

The Earth has a magnetic field which is essentially bipolar. The Earth's magnetic field is probably caused by movements within the liquid iron-rich part of the outer core of the Earth and NOT by a bar magnet inside it. The Earth's magnetic field reverses at irregular intervals, so that South becomes North and North becomes South.

This is an activity designed by the Earthlearningidea Team. In this activity students:

- make their own 'Magnetic Earth' and magnetic detector by following instructions;
- locate the North and South poles of a hidden bar magnet;
- relate the model to the bipolar magnetic field of the Earth.

In the follow up activity, students:

- identify which pole is North and which South;
- relate the direction of a model Earth's magnetism to magnetic reversals in the Earth.

Resources available from:

https://www.earthlearningidea.com/PDF/290_Magnetic_Earth.pdf

N.B. Other Earthlearningideas linked to the magnetic Earth are:

http://www.earthlearningidea.com/PDF/80_Frozen_magnetism.pdf

http://www.earthlearningidea.com/PDF/81_Magnetic_stripes.pdf

http://www.earthlearningidea.com/PDF/197_Compass.pdf