

Worksheet - Earth's Magnetic Field

Read the material provided by your teacher or research the Internet to find these answers.

- 1) Draw and label a picture of the earth's magnetic field.
- 2) Based on your picture explain how a compass works.
- 3) Which end of a compass needle would point toward the N pole of a bar magnet?
- 4) We don't know where the Earth's Magnetic Field comes from. Its magnetic field is similar to that of a bar magnet, but the Earth is not a magnetized chunk of iron like a bar magnet. Why can't the magnetic field be explained using the concept of magnetic domains?
- 5) Describe some possible causes of the Earth's magnetic field.
- 6) The Earth's magnetic field is not stable. Give some evidence of this.
- 7) How is magnetism important to our evolution?
- 8) Describe the phenomenon known as Aurora borealis.
- 9) Describe some examples of magnetism in living organisms.

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