

## Earth's Magnetic Field Practice Worksheet

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- Which hypothesis about why the magnetic field flips is best supported by data:
  - Excess volcanism causes chaos in the mantle
  - An asteroid impact disrupts motions in the core
  - Convection becomes chaotic and reverse direction
  - None of these; scientists have no hypotheses.
  
- A magnetic field is generated by convection in the liquid outer core.
  - TRUE
  - FALSE
  
- Without Earth's magnetic field, complex life could probably not exist.
  - TRUE
  - FALSE
  
- Fill in the blank(s):  
Complete the statement using the word **light**, **heat**, or **radiation**.  
Earth's magnetic field is important because the magnetic field shields the planet from harmful \_\_\_\_\_ - \_\_\_\_\_ from the sun.
  
- Without Earth's magnetic field
  - Compasses would not work
  - Solar winds would strip away ozone from the atmosphere
  - Life would be exposed to ultraviolet radiation
  - All of the above
  
- A field produced by a magnetic object that exerts a force on other magnetic materials or moving electrical charges is called a/an \_\_\_\_\_.
  - Magnetic field
  - Electric field
  - Electrostatic field
  - All of the above
  
- Earth has a magnetic field because it has a molten \_\_\_\_\_ that has convection currents.
  - mantle

- b. outer core
- c. crust
- d. inner core

8. Which form of Iron and Nickel generates a magnetic field in the outer core of the earth?

- a. Solid
- b. Gaseous
- c. Molten
- d. None of the above

9. Earth's magnetic fields are a caused by activity at the poles.

- a. TRUE
- b. FALSE

10. Sometimes Earth's magnetic north pole becomes its magnetic south pole and vice versa.

- a. TRUE
- b. FALSE

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