

Earth's Magnetic Field Practice Worksheet

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1. Which hypothesis about why the magnetic field flips is best supported by data:
 - a. Excess volcanism causes chaos in the mantle
 - b. An asteroid impact disrupts motions in the core
 - c. Convection becomes chaotic and reverse direction
 - d. None of these; scientists have no hypotheses.

2. A magnetic field is generated by convection in the liquid outer core.
 - a. TRUE
 - b. FALSE

3. Without Earth's magnetic field, complex life could probably not exist.
 - a. TRUE
 - b. FALSE

4. 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.

5. Without Earth's magnetic field
 - a. Compasses would not work
 - b. Solar winds would strip away ozone from the atmosphere
 - c. Life would be exposed to ultraviolet radiation
 - d. All of the above

6. A field produced by a magnetic object that exerts a force on other magnetic materials or moving electrical charges is called a/an _____.
 - a. Magnetic field
 - b. Electric field
 - c. Electrostatic field
 - d. All of the above

7. Earth has a magnetic field because it has a molten _____ that has convection currents.
 - a. 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 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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