

Magnetic Earth Vocabulary

Overview

Students review vocabulary associated with Unit 2: Magnetic Earth.

Objectives:

The student will match the following terms to their definitions: magnetic field lines, Earth, dip needle, molten rock, bar magnet, geographic pole, geomagnetic pole, Earth's axis, magnetic field, magnetic domains, crust, mantle, and core.

Materials:

- *Aurora Alive* DVD
- STUDENT WORKSHEET: "Word Bank"

Activity Procedure:

Hand out the STUDENT WORKSHEET: "Word Bank" and ask students to complete it by writing the correct word (from the word bank) in the blank before each definition. Allow students to review the DVD to find the terms and their definitions.



Answers to Student Worksheet:

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|----------------------------|--------------------------------|
| 1. <i>crust</i> | 7. <i>molten rock</i> |
| 2. <i>geomagnetic pole</i> | 8. <i>magnetic field lines</i> |
| 3. <i>magnetic domains</i> | 9. <i>core</i> |
| 4. <i>mantle</i> | 10. <i>rotation axis</i> |
| 5. <i>magnetic field</i> | 11. <i>geographic pole</i> |
| 6. <i>dip needle</i> | |

Word Bank

Directions: Complete this worksheet by writing the correct word from the word bank in the blank before each definition.

WORD BANK		
magnetic field lines	Earth	dip needle
molten rock	geographic pole	geomagnetic pole
rotation axis	magnetic field	magnetic domains
crust	mantle	core

1. _____ This outer layer of Earth includes the ground on which we walk.
2. _____ This pole is one of two points on the top and bottom of Earth that has a strong magnetic pull.
3. _____ These clusters of atoms move together and behave like tiny magnets.
4. _____ This very thick layer of Earth is located just beneath the crust.
5. _____ This is the force field around a magnet or electrical current.
6. _____ This long thin magnet looks like the pointer in a compass, but is allowed to move in all directions. Dr. William Gilbert used this to come up with the theory that Earth behaves like a giant magnet.
7. _____ This rock is so hot it melts and acts like a liquid.
8. _____ The force field around a magnet is represented with these lines on most drawings or graphs.
9. _____ This layer of Earth is made up of iron and nickel. Most of the rock within this layer is so hot that it melts and acts like a liquid. The movement of this liquid rock may generate Earth's magnetic field.
10. _____ This is the imaginary axis on which Earth rotates.
11. _____ This pole is one of two points located at the top and bottom of Earth's rotation axis.