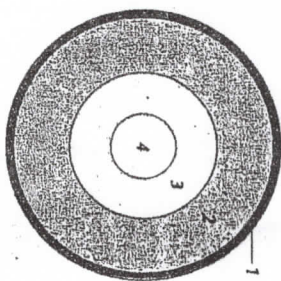


Understanding Main Ideas

Label the layers of Earth by writing the name of the layer in the blank.

1. _____
2. _____
3. _____
4. _____



Earth's layers

Answer the following questions on a separate sheet of paper.

5. What are two types of evidence geologists use to learn about Earth's interior?
6. Compare and contrast the asthenosphere with the lithosphere.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition on the line beside the term in the left column.

7. basalt _____
8. asthenosphere _____
9. crust _____
10. outer core _____
11. lithosphere _____
12. granite _____
13. pressure _____
14. seismic wave _____

- a. a rock that makes up much of the ocean floor
- b. the force pushing on a surface or area
- c. the layer made up of liquid iron and nickel
- d. the uppermost part of the mantle
- e. a rock that makes up the core of the continents
- f. outer rind of rock
- g. a wave produced by an earthquake
- h. soft layer of rock in the mantle

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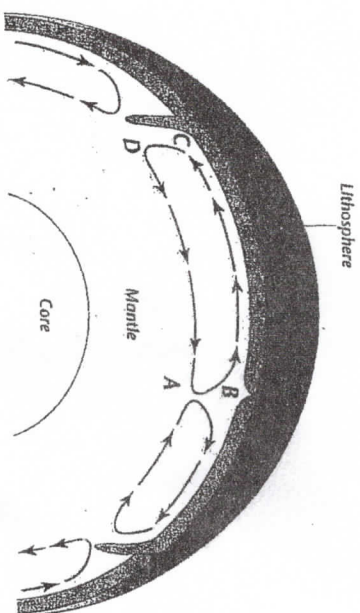
DEPAME : USE GLOSSARY IN TEXT BOOK

INSULATOR :

Plate Tectonics • Enrich

What's Happening During Convection?

The figure below shows a convection cell in Earth's mantle. A convection cell is one complete loop of a convection current. Use the figure to answer the questions that follow.



Answer the following questions on a separate sheet of paper.

1. Where does the heat come from that drives this convection current in the mantle?
2. Where is the temperature of the mantle material greater, at point A or point B? Explain why.
3. Where is the density of the material greater, at point B or point C? Explain why.
4. What causes the convection cell to turn to the left at point B?
5. What happens to the temperature and density of the material between points B and C?
6. What force causes the convection cell to turn down at point C?
7. What happens to the temperature and density of the material between points D and A?
8. What causes the convection cell to turn up at point A?
9. How do you think this convection cell might affect the crust material above it?

CONDUCTOR :

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