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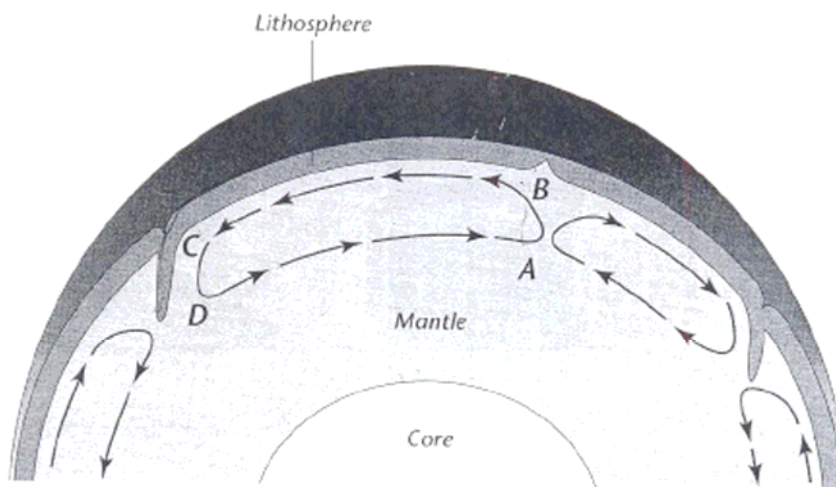
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SECTION 1-2

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.



1. Where does the heat come from that drives this convection current in the mantle?

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2. Where is the temperature of the mantle material greater, at point A or point B? Explain why.

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3. Where is the density of the material greater, at point A or point C? Explain why.

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4. What causes the convection cell to turn to the left at point B?

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5. What happens to the temperature and density of the material between points B and C?

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6. What force causes the convection cell to turn down at point C?

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7. What happens to the temperature and density of the material between points D and A?

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8. What causes the convection cell to turn up at point A?

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9. How do you think this convection cell might affect the crust material above it?

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