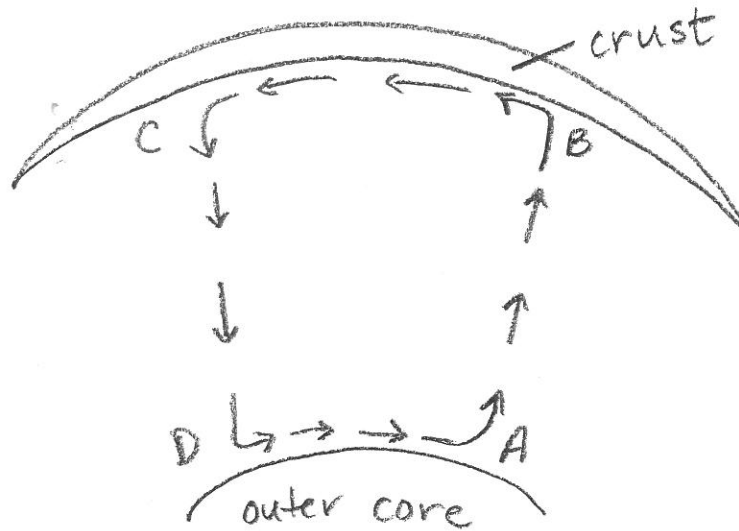


Convection in the Mantle



1. Where does the heat come from that drives this convection current in the mantle?
2. Where is the temperature of the mantle greater, at point B or point C? Explain why.
3. Where is the density of the mantle material greater, at point A or B? 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 mantle material as it travels along the crust between points B and C?
6. What force cause the convection cell to turn down at point C?
7. What happens to the temperature and density of the mantle material as it travels above the core 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?