

1. List the factors that affect the movement of ocean currents.
2. Indicate which of these factors predominantly affect the surface (horizontal) movement of currents. Indicate which factors affect the ocean's lower layer and result in convection currents (vertical movement) as well as horizontal movement.
3. What impact does the Coriolis effect have on the direction of wind and ocean currents?
4. Why is density important to understanding the movement of ocean currents?
5. What affects the density of ocean water?
6. Draw two labelled diagrams to contrast what takes place in coastal upwelling with what takes place with the Antarctic bottom water. The diagrams should clearly show the movement of warm and cold water.
7. Why is ocean water upwelling important to the economy?
8. Why is the movement of the Antarctic bottom water important?