



Review and Reflect

Review

1. Does adding salt to water increase or decrease the density of water? Use evidence from the investigation to explain your answer.
2. How does the density of seawater depend on temperature?
3. How is heat moved from low latitudes to high latitudes on the Earth?
4. What causes surface currents in the ocean?
5. Where do most cold surface currents form? Where do most warm surface currents form? Explain.

Reflect

6. What evidence did you gather in your investigation that would explain the ocean currents shown in the map at the beginning of this investigation?
7. How realistic is the model you created for deep ocean circulation? Discuss both the strengths and weaknesses of your model.

Thinking about the Earth System

8. How do the hydrosphere and atmosphere interact to produce ocean currents?

Thinking about Scientific Inquiry

9. Why is it important to have a control in an experiment?
10. When did you form hypotheses in this investigation?
11. What is a variable?
12. What is the difference between a hypothesis and a theory?