

Unit VI
Chapter 18

*Ocean Temperature
and Pressure*



Performance Standards

Demonstrate an understanding of the relationship of kinetic energy to heat in the sea.

- SC.B.1.4.1 Understand how knowledge of energy is fundamental to all the scientific disciplines (e.g., the energy required for biological processes in living organisms and the energy required for building, erosion, and rebuilding of Earth).
- SC.B.1.4.2 Understand that there is conservation of mass and energy when matter is transformed.
- SC.G.2.4.5 Understand that the amount of life any environment can support is limited and that human activities can change the flow of energy and reduce the fertility of the Earth.

Temperature is an important factor that affects properties of ocean water. Differences in temperature affect water density, the mixing of water layers and the kinds of organisms that can live in different parts of the ocean.

STUDENT INSTRUCTIONS

1. Read chapter 18 pages 408-427 in your text and
 - a. write definitions or...
 - b. draw pictures or...
 - c. make diagrams for each of the 15 vocabulary words on page 430.
2. After reading each section of the chapter, answer the section review questions on pages 412, 416, 423, and 427.
3. Complete the Extended Response question on the following page.

READ
THINK
EXPLAIN

4. Write an essay following the FCAT writing format describing some adaptations of ocean life to cold water.
5. Complete the Laboratory Investigation on page 428-429.
6. Turn in all completed work and ask your instructor for the Chapter 18 Test.
