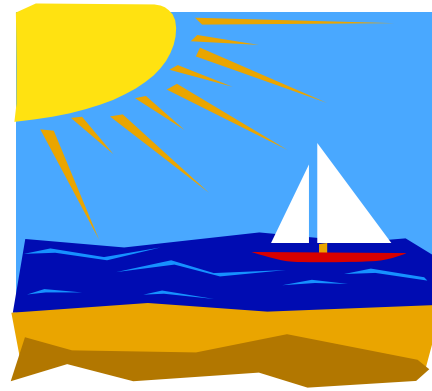


**Unit VI**  
**Chapter 19**  
*Light and Sound  
in the Sea*



**Performance Standards**

Demonstrate an understanding of the properties of light and sound, particularly in the ocean.

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.D.2.4.1 Understand the interconnectedness of the systems on Earth and the quality of life.

Two forms of energy, light and sound, have an important impact on life in the sea. Light makes possible the existence of most ocean life, since the major oceanic food chains depend on photosynthesizing plankton.

**STUDENT INSTRUCTIONS**

1. Read chapter 19 pages 432-446 in your text and
  - a. write definitions or...
  - b. draw pictures or...
  - c. make diagrams for each of the 16 vocabulary words on page 448.
2. After reading each section of the chapter, answer the section review questions on pages 436, 441, and 446.
3. Complete the Extended Response question on the following page.

<b>READ</b>
<b>THINK</b>
<b>EXPLAIN</b>

3. Write an essay following the FCAT writing format explaining why blue light penetrates more deeply into the ocean than other colors of light do.
4. Turn in all completed work and ask your instructor for the Chapter 19 Test.

