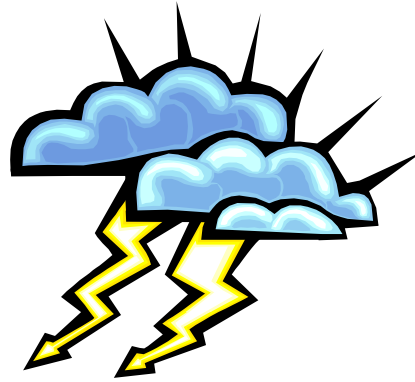


Unit V
Chapter 17
Climate and the Ocean



Performance Standards

Demonstrate an understanding of how ocean temperatures affect weather and the climate.

- SC.D.1.4.1 Know how climatic patterns on Earth result from an interplay of many factors (Earth’s topography, its rotation on its axis, solar radiation, the transfer of heat energy where the atmosphere interfaces with lands and oceans, and wind and ocean currents).
- SC.D.2.4.1 Understand the interconnectedness of the systems on Earth and the quality of life.
- SC.H.3.4.5 Know that the value of a technology may differ for different people and at different times.
- SC.H.3.4.6 Know that scientific knowledge is used by those who engage in design and technology to solve practical problems, taking human values and limitations into account.

Three different “layers” make up our world - the atmosphere, the hydrosphere and the lithosphere. These different layers interact with one another to produce changes in each.

STUDENT INSTRUCTIONS

1. Read chapter 17 pages 382-401 in your text and
 - a. write definitions or...
 - b. draw pictures or...
 - c. make diagrams for each of the 17 vocabulary words found on page 404.
2. After reading each section of the chapter, answer the section review questions on pages 388, 392, 397, and 401.
3. Complete the Extended Response question on the following page.

READ THINK EXPLAIN

4. Write an essay following the FCAT writing format describing how and where hurricanes are formed.
5. Go to the Laboratory Investigation on page 402, and follow instructions 1 and 4 under “Procedure” and 1, 2, and 3” under Observations and Analyses.”
6. Turn in all completed work and ask your instructor for the Chapter 17 Test.
