

# Unit I

## Chapter 3--*The World of Water*



### Performance Standards

Demonstrate understanding about the chemistry of water and why it is so important for the support of life on Earth.

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| 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.   |
| SC.E.1.4.3 | Know the various reasons that Earth is the only planet in our Solar System that appears to be capable of supporting life, as we know it.   |
| SC.G.2.4.1 | Know that layers of energy rich organic materials have been gradually turned into great coal beds and oil pools (fossil fuels) by pressure of the overlying earth and that humans burn fossil fuels to release the stored energy as heat and carbon dioxide. |
| SC.G.2.4.2 | Know that changes in a component of an ecosystem will have unpredictable effects on the entire system but that the components of the system tend to react in a way that will restore the ecosystem to its original condition.                                |
| 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.   |
| SC.G.2.4.6 | Know the ways in which humans today are placing their environment support systems at risk (e.g., rapid human population growth, environmental degradation, and resource depletion).  |

Knowledge of water and the substances it contains will provide a better understanding of how life exists in the sea.

### STUDENT INSTRUCTIONS

1. Read chapter 3 pages 56-73 in your text and
  - a. write definitions, or...
  - b. draw pictures, or...
  - c. diagram explanation for the 22 vocabulary words found on page 76.
2. After reading the chapter, complete the **Fill In** questions (1-10) on page 76 and complete the **Multiple Choice** questions (14-22) on page 77.
3. Complete the Extended Response question on the following page.
4. Write an essay following the FCAT writing format explaining how the processes of evaporation and condensation contribute to the water cycle.
5. Turn in all completed work and ask the instructor for the Chapter 3 Test.

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