

Course Title: GRADE SIX SCIENCE-A	Course Description
<p>Course No. N/A Grade level: 6</p> <p>Text and Resources: A. <i>Focus on Science, Level F</i>; Steck-Vaughn *B. <i>Holt Science and Technology: Earth Science</i>; Holt, Rinehart C. <i>Concepts and Challenges: Earth Science</i>; Globe Fearon</p> <p>*Primary adoption</p>	<p>Course Duration: *One Semester</p> <p>Credit Value: One Course</p>
<p align="center">Course Content: Key Content Standards and Course Objectives</p>	<p>This course will emphasize the study of the earth sciences. The sixth grade standards present many of the foundations of geology and geophysics, including plate tectonics and earth structure, topography, and energy. The material is linked to resource management and ecology, building upon what students have learned in previous grades. This course will serve as a foundation for Earth science literacy.</p> <p>*Open entry/open exit</p>
<p>The following standards are the Grade Six Science Standards:</p> <ol style="list-style-type: none"> 1. Plate tectonics explain important features of the Earth's surface and major geologic events. 2. Topography is reshaped by weathering of rock and soil and by the transportation and deposition of sediment. 3. Heat moves in a predictable flow from warmer objects to cooler objects until all objects are at the same temperature. 4. Many phenomena on the Earth's surface are affected by the transfer of energy through radiation and convection currents. 5. Organisms in ecosystems exchange energy and nutrients among themselves and with the environment. 6. Sources of energy and materials differ in amounts, distribution, usefulness, and the time required for their formation. <p><u>Investigation and Experimentation</u></p> <p>Students will ask meaningful questions and conduct careful investigations addressing the content of the above Earth Science standards.</p>	
<p align="center">Methods of Study</p>	<p align="center">Evaluation of Performance Standards</p>
<ol style="list-style-type: none"> 1. Students will complete all activities assigned. 2. Students will participate in discussion with other class members and/or teacher. 	<ol style="list-style-type: none"> 1. Students will complete all assignments and assessments with a minimum of 70% accuracy. 2. The supervising teacher will be satisfied with the quality of the student's work.

GRADE SIX SCIENCE A

Course Outline

I. Textbook Assignment Options:

- A. *Holt Science and Technology, Earth Science (1 Course)*
- Read: Units 1-3.
 - Complete: all Section Review questions.
 - Complete: “Using Vocabulary” and “Understanding Concepts” in the Chapter Reviews.
 - Complete one Extension Activity
- B. *Focus on Science, Level F (1 Course)*
- Read and complete all activities in textbook.
 - Complete one Extension Activity
- C. *Concepts and Challenges in Earth Science (1998 Edition) (1 Course)*
- Read: Units 1-9.
 - Complete: “Check” and “Apply” exercises in Lesson Summaries.
 - Complete: Unit Challenges: “Tech Term,” “Content Challenges,” and “Reading Critically” exercises.
 - Complete one Extension Activity
- D. *Concepts and Challenges in Earth Science (2003 Edition) (1 Course)*
- Read: Units 1-3.
 - Complete: Lesson Activities “Checking Concepts” and “Thinking Critically.”
 - Complete: Chapter Challenges: “Key Term Challenge” exercises and “Content Challenges” only.
 - Complete one Extension Activity.

II. Extension Activities

- Answer the following questions in a multiple paragraph composition: What is a volcano? What causes volcanoes? Where do they form? What are the three different types of volcanoes? What erupts from a volcano? What is the difference between non-explosive and explosive eruptions? Can volcanic eruptions be predicted?
- Create a chart to show the process of coal formation. Include the four stages and a description of each stage. In two to three paragraphs, explain in what areas coal can be found, the two ways that coal can be obtained, and how obtaining coal can cause environmental problems.
- Create a chart to show the steps of the scientific method. In two to three paragraphs, describe why it is used and explain each step in the scientific method.
- Answer the following questions in a multiple paragraph composition: What are tectonic plates? What causes tectonic plate motion? How do scientists track this motion? What are the three tectonic plate boundaries and what do they do?
- Teacher generated activity, approved by the site administrator.

III. Evaluation

- Unit and/or final test.
- All textbook work must meet the 70% accuracy level for a “C” grade.