

**GRENADA UPPER ELEMENTARY SCHOOL**  
**FIFTH GRADE/2009-2010**  
**SCIENCE CURRICULUM MAP**  
**1<sup>ST</sup> NINE WEEKS**

**CONTENT STRAND: LIFE SCIENCE**

**Competency 1:** Identify and describe structures and functions in living systems.

<u>Obj. Letter</u>	<u>OBJECTIVE</u>	<u>Reference to Textbook</u>	<u>Date(s) Taught</u>
<b>a</b>	Investigate levels of organization in organisms including cells, tissues, organs, organ systems, whole organisms, and ecosystems.	Lessons 1, 8 Unit A R27-R34	
<b>b</b>	Explore ecosystems and biomes.	Lessons 1-5 Unit B	

**Competency 2:** Identify and describe reproduction and heredity of organisms.

<u>Obj. Letter</u>	<u>OBJECTIVE</u>	<u>Reference to Textbook</u>	<u>Date(s) Taught</u>
<b>a</b>	Define and recognize examples of sexual and asexual reproduction.	Lessons 4, 5, 6 Unit A	
<b>b</b>	Explore how traits are used to classify individual inheritance patterns.	Lessons 1, 8 Unit A	

**Competency 3:** Determine the factors that influence the regulation and behavior of organisms.

<u>Obj. Letter</u>	<u>OBJECTIVE</u>	<u>Reference to Textbook</u>	<u>Date(s) Taught</u>
<b>a</b>	Identify and describe resources needed to grow, reproduce, maintain, and survive in a changing environment.	Lessons 2, 3 Unit A	
<b>b</b>	Investigate ways organisms adapt to their environment.	Lessons 7, 9 Unit A	

**Competency 4:** Examine the physical factors of populations as they relate to the formation of the ecosystem.

<u>Obj. Letter</u>	<u>OBJECTIVE</u>	<u>Reference to Textbook</u>	<u>Date(s) Taught</u>
<b>a</b>	Identify, describe, and illustrate the roles among producers, consumers, and decomposers in a food web.	Lessons 2, 3 Unit B	
<b>b</b>	Investigate resources and other factors (living and nonliving) that promote and limit growth of populations in an ecosystem.	Lesson 4 Unit B	

**Competency 5:** Explore the diversity and adaptations of organisms.

<u>Obj. Letter</u>	<u>OBJECTIVE</u>	<u>Reference to Textbook</u>	<u>Date(s) Taught</u>
<b>a</b>	Classify organisms by their similarities.	Lesson 1, 8 Unit A	
<b>b</b>	Explore and explain biological adaptations in a particular environment.	Lesson 6 Unit B	
<b>c</b>	Research and investigate environmental changes and the inability of a species to adapt.	Lesson 7 Unit A Lesson 6 Unit B	

**GRENADA UPPER ELEMENTARY SCHOOL**  
**FIFTH GRADE/2009-2010**  
**SCIENCE CURRICULUM MAP**  
**2<sup>ND</sup> NINE WEEKS**

**CONTENT STRAND: EARTH AND SPACE SCIENCE**

**Competency 6:** Investigate the structure of the Earth.

<b><u>Obj. Letter</u></b>	<b><u>OBJECTIVE</u></b>	<b><u>Reference to Textbook</u></b>	<b><u>Date(s) Taught</u></b>
<b>a</b>	Investigate the structure of the atmosphere (gas-air), hydrosphere (liquid-water), and lithosphere (solid-land).	Lesson 1 Unit C	
<b>b</b>	Examine how organisms affect the composition of the Earth and its atmosphere.	Lesson 5 Unit C	
<b>c</b>	Analyze processes that cause changes on Earth.	Lesson 2 Unit C	
<b>d</b>	Explore fossils as indicators of how life and environmental conditions have changed.	Lesson 4 Unit C	

**Competency 7:** Investigate the Earth as a part of the solar system.

<b><u>Obj. Letter</u></b>	<b><u>OBJECTIVE</u></b>	<b><u>Reference to Textbook</u></b>	<b><u>Date(s) Taught</u></b>
<b>a</b>	Explore how the Earth's motion defines the day and the year and influences the phases of the moon and eclipses.	Lesson 1 Unit C	
<b>b</b>	Explain how gravity influences the action of the tides.	Lesson 7 Unit C	
<b>c</b>	Explain and illustrate how the tilt of the Earth's axis and Earth's revolution around the Sun create the seasons.	Lesson 1 Unit C	

- **Do not forget that the State Science test does cover the 3<sup>rd</sup> and 4<sup>th</sup> grade objectives on Weather. Make sure you go over that section with your students.**

**GRENADA UPPER ELEMENTARY SCHOOL**  
**FIFTH GRADE/2009-2010**  
**SCIENCE CURRICULUM MAP**  
**3<sup>RD</sup> NINE WEEKS**

**CONTENT STRAND: PHYSICAL SCIENCE**

**Competency 8:** Identify properties and changes of matter.

<b><u>Obj. Letter</u></b>	<b><u>OBJECTIVE</u></b>	<b><u>Reference to Textbook</u></b>	<b><u>Date(s) Taught</u></b>
<b>a</b>	Observe and explore physical and chemical properties such as density, boiling/freezing point, and solubility of a substance.	Lessons 1, 3 Unit E	
<b>b</b>	Explore, observe, discuss, and record physical and chemical changes using everyday substances.	Lessons 4, 5 Unit E	
<b>c</b>	Recognize elements that combine chemically to produce compounds.	Lesson 2 Unit E	
<b>d</b>	Demonstrate the ability to use simple measuring devices using metric and English units.	Lessons 1, 2, 4 Unit E	

**Competency 9:** Investigate the effect motions and forces have on objects.

<b><u>Obj. Letter</u></b>	<b><u>OBJECTIVE</u></b>	<b><u>Reference to Textbook</u></b>	<b><u>Date(s) Taught</u></b>
<b>a</b>	Explore, measure, and graph the motion of an object.	Lesson 7 Unit E Lesson 1 Unit F	
<b>b</b>	Explore and measure the effect of force on an object.	Lessons 2, 3 Unit F	

**Competency 10:** Examine the transformations of forms of energy.

<b><u>Obj. Letter</u></b>	<b><u>OBJECTIVE</u></b>	<b><u>Reference to Textbook</u></b>	<b><u>Date(s) Taught</u></b>
<b>a</b>	Design and construct simple and compound machines.		
<b>b</b>	Design and construct electrical circuits (open, closed, series, parallel).		
<b>c</b>	Design and construct an electromagnet.		

**GRENADA UPPER ELEMENTARY SCHOOL**  
**FIFTH GRADE/2009-2010**  
**SCIENCE CURRICULUM MAP**  
**4<sup>TH</sup> NINE WEEKS**

**Review of all objectives taught throughout the year.**