

**RIDGECROFT SCHOOL
GRADE 2 SCIENCE**

PACING GUIDE

TOPICS/CONCEPTS	TIME	CURRICULUM OBJECTIVES	RESOURCE(S)
FIRST GRADING PERIOD			
NEEDS OF LIVING ORGANISMS	30	1.01, 1.02, 1.03, 1.04, 1.05	AIMS Module: Cycles of Knowing and Growing AIMS Module: Critters TEXTBOOK: Chapter 9 Plants Change
SECOND GRADING PERIOD			
NEEDS OF LIVING ORGANISMS	30	1.01, 1.02, 1.03, 1.04, 1.05	AIMS Module: Cycles of Knowing and Growing AIMS Module: Critters TEXTBOOK: Chapter 9 Plants Change
THIRD GRADING PERIOD			
CHANGES IN PROPERTIES • Heat	30	3.01, 3.02, 3.03, 3.04, 3.05, 3.06	STC Kit: Changes TEXTBOOK: Chapter 6 Heat AIMS Module: Primarily Physics
FOURTH GRADING PERIOD			
CHANGES IN PROPERTIES • Heat	30	3.01, 3.02, 3.03, 3.04, 3.05, 3.06	STC Kit: Changes TEXTBOOK: Chapter 6 Heat AIMS Module: Primarily Physics
FIFTH GRADING PERIOD			
SOUND	15	4.01, 4.02, 4.03, 4.04, 4.05	AIMS Module: Primarily Physics TEXTBOOK: Chapter 3 Sound Around Us
SIXTH GRADING PERIOD			
SOUND	30	4.01, 4.02, 4.03, 4.04, 4.05	AIMS Module: Primarily Physics TEXTBOOK: Chapter 3 Sound Around Us STC Kit: Sound
ANIMAL LIFE CYCLES	30	2.01, 2.02, 2.03, 2.04	AIMS Module: Cycles of Knowing and Growing AIMS Module: Critters TEXTBOOK: Chapter 1 Animals Change STC Kit: Life Cycle of Butterfly

8/5/08

GOALS AND OBJECTIVES

NOTE: The goals and objectives for Grades K-5 science are based on a recluster of the NC Standard Course of Study.

<p>GOAL 1: The learner will conduct investigations and make observations to build an understanding of the needs of living organisms.</p> <p>1.01 Investigate the needs of a variety of different plants: (air, water, light, space)</p> <p>1.02 Investigate the needs of a variety of different animals: (air, water, food, shelter, space)</p> <p>1.03 Observe the ways in which humans are similar to other organisms.</p> <p>1.04 Identify local environments that support the needs of common North Carolina plants and animals.</p> <p>1.05 Discuss the wide variety of living things on Earth.</p>	<p>GOAL 2: The learner will conduct investigations and build an understanding of animal life cycles.</p> <p>2.01 Describe the life cycle of animals including: (birth, developing into an adult, reproducing, aging and death)</p> <p>2.02 Observe that insects need food, air and space to grow.</p> <p>2.03 Observe the different stages of an insect life cycle.</p> <p>2.04 Compare and contrast life cycles of other animals such as mealworms, ladybugs, crickets, guppies or frogs.</p>	<p>GOAL 3: The learner will conduct investigations to build understanding of changes in properties.</p> <p>3.01 Identify three states of matter: (solid, liquid, gas)</p> <p>3.02 Observe changes in state due to heating and cooling of common materials.</p> <p>3.03 Explain how heat is produced and can move from one material or object to another.</p> <p>3.04 Show that solids, liquids and gases can be characterized by their properties.</p> <p>3.05 Investigate and observe how mixtures can be made by combining solids, liquids or gases and how they can be separated again.</p> <p>3.06 Observe that a new material is made by combining two more materials with properties different from the original material.</p>	<p>GOAL 4: The learner will conduct investigations and use appropriate technology build understanding of concepts of sound</p> <p>4.01 Demonstrate how sound is produced by vibrating objects and vibrating columns of air.</p> <p>4.02 Show how the frequency can be changed by altering the rate of the vibration.</p> <p>4.03 Show how the frequency can be changed by altering the size and shape of a variety of instruments.</p> <p>4.04 Show how the human ear detects sound by having a membrane that vibrates when sound reaches it.</p> <p>4.05 Observe and describe how sounds are made by using a variety of instruments and other “sound makers” including the human vocal cords.</p>
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