



SPRING GROVE AREA SCHOOL DISTRICT



PLANNED COURSE OVERVIEW

Course Title: Science Grade Level(s): Kindergarten Units of Credit: NA Classification: Required	Length of Course: Full Year Periods Per Cycle: 6 Length of Period: 30 Minutes Total Instructional Time: 90 Hours
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Course Description

This course provides students with a foundation of skills in Life, Earth, Physical Science, Environmental Literacy and Sustainability, and Engineering and Technology.

Instructional Strategies, Learning Practices, Activities, and Experiences

Anchor Charts Anticipatory Sets Bell Ringers Class Discussions Closure Critical Thinking Graphic Organizers Guided Reading Higher Level Questioning Homework	Interaction Sequence Internet Research Journals Paper and Pencil Activities Posted Objectives Practice Exercises Presentations PSSA Released Materials Question-Answer Relationships Quizzes	Reports and Speeches Research Small Group Interventions Teacher Demonstrations Teacher Made Tests Technology Integration Videos / DVDs Wait Time Wait Time Extended
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Assessments

Homework Oral Projects Presentations	Projects Reports Teacher Observations	Teacher Made Tests and Quizzes PSSA Practice Materials PSSA Item Samplers
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Materials/Resources

Core Knowledge Science Guest Speakers Internet	Leveled Readers Resource Books SAS (Standards Aligned System)	Supplemental Readings Videos / DVDs
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Adopted: 1/27/88

Revised: 9/3/91, 12/8/97, 11/15/01, 5/19/14, 5/22/23

3.1 Life Sciences	
CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Organization for Matter and Energy Flow in Organisms Taught using Core Knowledge Needs of Plants and Animals Unit Lessons 1.1-1.4, 2.1-2.4, and 3.1-3.3	3.1.K.A - Use observations to describe patterns of what plants and animals (including humans) need to survive.

3.2 Physical Science	
CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Forces and Motion Types of Interactions Taught using Core Knowledge Unit – Pushes and Pulls Lessons 1.1-1.4	3.2.K.A - Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull. 3.2.K.B - Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.

3.2 Physical Sciences	
CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Conservation of Energy and Energy Transfer Taught using Core Knowledge Unit – Weather Patterns Lessons 1.3 and 2.1-2.4	3.2.K.C - Make observations to determine the effect of sunlight on Earth's surface. 3.2.K.D - Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.

3.3 Earth and Space Sciences	
CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Weather and Climate	3.3.K.A - Use and share observations of local weather conditions to describe patterns over time.
Biogeology	3.3.K.B - Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.
Natural Resources	3.3.K.C - Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live.
Natural Hazards	
Human Impact on Earth Systems	3.3.K.D - Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.
Taught using Core Knowledge Unit – Weather Patterns Lessons 3 -4	3.3.K.E - Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.