SPRING GROVE AREA SCHOOL DISTRICT

PLANNED COURSE OVERVIEW



Course Title: Science

Grade Level(s): 5

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

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	
Assessments			
Homework Oral Projects Presentations	Projects Reports Teacher Observations	Teacher Made Tests and Quizzes PSSA Practice Materials PSSA Item Samplers	
Materials/Resources			
Core Knowledge Science Guest Speakers Internet	Leveled Readers Resource Books SAS (Standards Aligned System)	Supplemental Readings Videos / DVDs	

Adopted: 1/27/88

Revised: 9/3/91, 12/8/97, 11/15/01, 5/19/14, 5/22/23 https://springgroveareascho.sharepoint.com/sites/PrivateSGASD/Shared Documents/AASG/NEWCURR/SCIENCE/2023/Grade 5/Planned Course Overview Grade 5.SHL.docx

CONTENT/KEY CONCEPTS	Objectives/Standards	
Organization for Matter and Energy Flow in Organisms	3.1.5.A - Support an argument that plants get the materials they need for growth chiefly from air and water.	
Interdependent Relationships in Ecosystems	3.1.5.B - Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	
Energy in Chemical Processes and Everyday Life	3.2.5.G - Use models to describe that energy in animals' food (used for body repair, growth, motion, and to	
Taught Using Core Knowledge Unit Energy and Matter in Ecosystems Lessons 1-9 and 12-13	maintain body warmth) was once energy from the sun.	

CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Structure and Properties of Matter	3.2.5.A - Develop a model to describe that matter is made of particles too small to be seen.
Chemical Reactions	3.2.5.B - Make and communicate observations and measurements to identify materials based on their properties.
Taught Using Core Knowledge Unit Investigating Matter Lessons 1-10	3.2.5.C - Interpret and analyze data to make decisions about how to utilize materials based on their properties.
	3.2.5.D - Measure and graph quantities to provide evidence that regardless of the type of change that occurs whe heating, cooling, or mixing substances, the total weight of matter is conserved.
	3.2.5.E - Conduct an investigation to determine whether the mixing of two or more substances results in new substances.

CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
The Universe and its Stars The Earth and the Solar System Types of Interactions Taught Using Core Knowledge Unit Astronomy Space Systems Lessons 4-14	 3.3.5.A - Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth. 3.3.5.B - Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky. 3.2.5.F - Support an argument that the gravitational force exerted by Earth on objects is directed down.

CONTENT/KEY CONCEPTS	Objectives/Standards
Earth Materials and Systems	3.3.5.C – Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere and/or atmosphere interact.
The Roles of Water in Earth's Surface Processes	3.3.5.D – Describe and graph the amounts of salt water and fresh water in various reservoirs to provide evidence
Human Impact on Earth Systems	about the distribution of water on Earth.
Taught Using Core Knowledge Unit – Protecting Earth's Resources Lessons 1-15	3.3.5.E - Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.
	3.3.5.F - Generate and design possible solutions to a current environmental issue, threat, or concern.