

Science Syllabus

Year	2019-2020
Required Resources	Pearson Science workbook Science experiment materials
Process Skills	Establish purpose for what a scientist does Purpose Questioning Observe Explore Discover Investigate Solve Write Predict Use ideas Ask relevant questions, seek clarification, and locate facts



Science Syllabus

<p>Syllabus 1st Semester</p>	<p>1st Nine Weeks</p> <p>Introduction: Working Like a Scientist Understand that scientists use tools to help them investigate and discover different things about our world Collect data and make observations using simple tools Use pictures, numbers, and words to record data Use senses to identify properties and patterns of organisms, objects, and events in the environment</p> <p>Describing Seasons (Focus: Summer) Make predictions based on patterns found in nature Observe and describe daily weather changes during summertime and the change of seasons Identify events that have repeating patterns, including seasons of the year and day and night</p> <p>Exploring Properties of Objects Observe and record properties of objects such as size (bigger/smaller), mass (heavier/lighter), shape, color, and texture (rough, smooth) Observe, record, and discuss how materials can be changed by heating or cooling</p> <p>Exploring Energy Use five senses to explore different forms of energy such as light, heat, and sound</p>
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Science Syllabus

2nd Nine Weeks

Exploring Positions, Magnetism, and Motion

Explore what magnets attract using various materials

Observe and describe the location of an object in relation to another such as: above, below, behind, in front of, and beside

Observe and describe the ways objects move such as in a straight line, a zigzag, up and down, back and forth, round and round, and fast and slow

Exploring Earth Materials

Identify and explain a problem such as the impact of littering on the playground and think of a solution in his/her own words

Observe, describe, compare, and sort rocks by size, shape, color, and texture

Observe and describe physical properties of natural resources of water such as color and clarity

Give examples of ways rocks, soil, and water are useful

Exploring Weather and Describing the Seasons (Focus: Fall)

Observe and describe daily weather changes during fall and the change of seasons

Observe, describe, and illustrate objects in the sky such as clouds, Moon, and stars, including the Sun



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<p>Syllabus 2nd Semester</p>	<p>3rd Nine Weeks</p> <p>Observing Objects in the Sky Observe, describe, and illustrate objects in the sky such as clouds, Moon, and stars, including the Sun</p> <p>Describing Seasons (Focus: Winter) Observe and describe daily weather changes during winter and the change of seasons</p> <p>Exploring Organisms and Environment State the difference between living and nonliving things based upon whether they have basic needs and have offspring Look at evidence that living organisms have basic needs such as food, water, and shelter for animals and air, water, nutrients, sunlight, and space for plants</p>
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Science Syllabus

	<p>4th Nine Weeks</p> <p>Exploring Organisms and Environment Identify and explain a problem and think of a solution in his/her own words State the difference between living and nonliving things based upon whether they have basic needs and have offspring Look at evidence that living organisms have basic needs such as food, water, and shelter for animals and air, water, nutrients, sunlight, and space for plants</p> <p>Exploring Physical Characteristics of Organisms Sort plants and animals into groups based on physical characteristics such as color, size, body covering, or leaf shape Identify parts of plants such as roots, stems, and leaves and parts of animals such as head, eyes, and limbs.</p> <p>Exploring Plant Life Cycles Identify ways that young plants resemble the parent plant Observe changes that are part of a simple life cycle of a plant: seed, seedling, plant, flower, and fruit</p> <p>Describing Seasons (Focus: Spring) Observe and describe daily weather changes during springtime and the change of seasons</p>
Library links	<p>Click on MackinVia to access sites. To access from home, students need to type in their school e-mail address: username@student.sisd.net</p> <p>Click on Databases-Britannica School see Learning Zone for PK-2 students and Animal Kingdom, DK Findout! Gale Cengage Learning see Kids Info Bits and National Geographic Kids for books about science, ProQuest Sirs Discoverer see Science Fair Discoverer, Animal Facts, and Nonfiction books</p> <p>Click on Categories to view eBooks about science</p> <p>To access Clever go to my.sisd.net, your child will need to logon with their school username and password. Please see your child's teacher for their login information. Funbrain has some games about simple machines and other science topics.</p>

