Mohawk Local Schools Grade 2 SCIENCE

Quarter: 1/2 Curriculum Guide

Guiding Principles of the Scientific Inquiry/Learning Cycle:

Evaluate….Engage…Explore…Explain…Extend…Evaluate

Identify ask valid and testable questions
Research books, other resources to gather known information
Plan and Investigate
Use appropriate mathematics, technology tools to gather, interpret data.
Organize, evaluate, interpret observations, measurements, other data
Use evidence, scientific knowledge to develop explanations
Communicate results with graphs charts, tables

Critical Areas of Focus Being Addressed:

- The Atmosphere

Content Statements Addressed and Whether they are Knowledge, Reasoning, Performance Skill, or Product: (DOK1) (DOK2) (DOK3) (DOK4)	Underpinning Targets Corresponding with Standards and Whether they are Knowledge, Reasoning, Performance Skill, or Product: "I can…..", "Students Will Be Able To……."
(Earth and Space Science) The atmosphere is made up of air. (DOK2)	(DOK1) • I can identify the properties of air (has weight [mass] and takes up space [volume]). (DOK2) • I can observe and measure the properties of air. The students can measure the speed and direction of wind.

	• I can describe how the transfer of energy in the atmosphere causes air movement, which is felt as wind.
(Earth and Space Science) Water is present in the air. (DOK2)	(DOK2) • I can observe and describe the states of water evident in the atmosphere. • I can explain the processes of condensation and evaporation. • I can express familiarity with the water cycle. • I can relate which type of weather is associated with different types of clouds. • I can explain how different types of pollutants enter waterways through different parts of the water cycle. • I can discover what factors contribute to condensation and evaporation rates. • I can describe how clouds are formed and how they move.
(Earth and Space Science) Long- and short-term weather changes occur due to changes in energy. (DOK2)	(DOK1) • I can define a weather front. • I can recall that weather changes occur due to energy changes. • I can identify factors or characteristics that contribute to changes in weather. (DOK2) • I can observe how air and water relate to weather and weather changes. • I can explain the relationship between wind/cloud changes and changes in weather.