1st Grade Science

The purpose of this document is to clarify what students should know and be able to do in each quarter.

The **Competencies** listed in the table below are developed from the Texas Essential Knowledge and Skills (TEKS) for that grade level. The chart defines which quarter the Competency is reported (Q1 = Grading Period 1, Q2 = Grading Period 2, etc.).

Teachers will report on the competencies using the **Grading Progressions** which are comprised of three proficiency levels (developing (DV), progressing (PG), and proficient (PF)) and defines the knowledge and skills students will master on their pathway to proficiency. The Grading Progressions for each Competency are below the yearlong outline of the Competencies. The Grading Progressions define what a student knows and is able to do related to that competency at the end of a unit or quarter. To see what success on each individual competency looks like in a particular unit, please see the **Public Overview** document for the course.

Students who receive a mark of "**Proficient**" meet the grade level expectation for that Competency.

Competencies	Q 1	Q 2	Q 3	Q 4
C1 Matter and its Properties The student classifies objects by physical properties, explains and predicts changes in materials caused by heating and cooling, and explains that a whole object is a system made of organized parts.	X			
C2 Forces and Motion The student plans and conducts an investigation to predict and explain how forces change the speed or direction of an object's motion.	X	X		
C3 Energy The student describes applications of heat in everyday life and how some changes from heat are reversible or not reversible.		X		
C4 Patterns in the Natural World The student describes and predicts patterns of seasons.		X		
C5 Earth Materials and Systems The student records the properties of soil, describes how water moves rocks and soil, compares bodies of water, and describes characteristics of weather.		X	X	
C6 Uses of Earth Materials The student describes how organisms use Earth materials, explains the importance of water conservation, and describes ways to conserve water.			X	X
C7 Interactions within Environments The student classifies living and nonliving things, describes how organisms depend on living and nonliving things, and identifies how organisms depend on each other in a food chain.				X
C8 Structures and Growth of Organisms The student compares structures of different animals that help them survive, records the life cycles of different animals, and compares how young animals resemble their parents.				X

Grading Progression for Competency 5: Earth Materials and Systems

The student records the properties of soil, describes how water moves rocks and soil, compares bodies of water, and describes characteristics of weather.

Developing	Progressing	Proficient
Makes or uses observations to identify water as an earth material.	Makes or uses observations to identify the properties (color, clarity, size, shape, and whether it is fresh water or salt water) of different sources of water.	Uses evidence to compare different sources of water based on their properties including color, clarity, size, shape, and whether it is fresh water or salt water. Uses patterns in the physical properties of sources of water as evidence to classify a water source.
Makes or uses observations to identify that earth materials move in our planet.	Develops models to collect evidence that show how earth materials can be moved from one place to another.	Uses evidence to describe how earth materials can be moved from one place to another.
Makes observations to describe the temperature of the air.	Makes observations to collect evidence about weather conditions including air temperature, wind conditions, sky conditions, and precipitation.	Uses tools to record weather conditions including air temperature, wind conditions, sky conditions, and precipitation. Uses evidence to describe weather conditions including air temperature, wind conditions, sky conditions, and precipitation. Analyzes evidence to find patterns that explain how different weather conditions affect our daily choices.

Grading Progression for Competency 6: Uses of Earth Materials

The student describes how organisms use Earth materials, explains the importance of water conservation, and describes ways to conserve water.

Developing	Progressing	Proficient
Makes or uses observations to identify and describe earth resources (rocks, soil, and water).	Gathers evidence that shows how plants, animals, and humans use rocks, soil, and water.	Uses evidence to describe how plants, animals, and humans use rocks, soil, and water. Uses evidence to identify rocks, soil, and water as parts of the environment.