

## Kindergarten Science

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 four proficiency levels (developing (DV), progressing (PG), and proficient (PF)) and defines the knowledge and skills students will master on their pathway to proficiency. The Learning Progressions for each Competency are below the yearlong outline of the Competencies. Following the Learning Progression are the Competency Success Criteria, which 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 the competencies 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
<b>C1 Matter</b> The student observes and records properties of objects and discusses how the objects can be changed by heating and cooling.	X			
<b>C2 Force, Motion, and Energy</b> The student identifies different forms of energy and describes the location and movement of objects.		X		
<b>C3 Earth’s Surface</b> The student describes and sorts rocks by physical properties and describes physical properties of natural sources of water.		X		
<b>C4 Patterns in the Natural World</b> The student describes day to day weather changes, identifies repeating patterns in the natural world, and illustrates and describes objects in the sky.			X	
<b>C5 Ecosystems</b> The student differentiates between living and nonliving things using the understanding of basic needs.			X	
<b>C6 Organisms</b> The student sorts animals and plants into groups based on physical characteristics and identifies the simple life cycle of a plant.				X
<b>C7 Scientific Practices</b> The student makes, records, and communicates observations about investigations.	X	X	X	X

**\*Grading Progressions for Q2-Q4 will be posted on 9/18/2020.**

**Learning Progression for Competency 1: Matter**

The student observes and records properties of objects and discusses how the objects can be changed by heating and cooling.

Developing	Progressing	Proficient
Identifies colors and geometric shapes	Records colors, shape, and texture of objects	Records the physical properties of materials before and after heating and cooling
Identifies objects that are big or small	Records size of objects as bigger or smaller using another object as a point of reference	Explains how materials change by heating and cooling
Names objects that are heavy or light	Records to determine which one is heavier or lighter by using the sense of touch	
Identifies objects that feel hot or cold		

Success Criteria for Proficient in Matter:

The student can:

- observe and record the physical properties of objects before and after heating.
  - o color
  - o shape using geometric shapes or straight/curved as appropriate
  - o texture of objects using a variety of words (rough, smooth, soft, bumpy, sticky)
  - o size of objects as bigger or smaller using nonstandard measurement units
  - o heavier or lighter by using a primary balance
- observe and record the physical properties of objects before and after cooling.
  - o color
  - o shape using geometric shapes or straight/curved as appropriate
  - o texture of objects using a variety of words (rough, smooth, soft, bumpy, sticky)
  - o size of objects as bigger or smaller using nonstandard measurement units
  - o heavier or lighter by using a primary balance
- explain how physical properties of materials change by heating and cooling.

**Learning Progression for Competency 7: Scientific Practices**

The student makes, records, and communicates observations about investigations.

Developing	Progressing	Proficient
<p>Uses five senses as a tool to observe</p> <p>Communicates an observation about an investigation</p>	<p>Uses appropriate science tools to make observations</p> <p>Records observations using pictures, numbers, and words</p>	<p>Uses appropriate science tools and vocabulary to make multiple observations about an investigation</p> <p>Organizes data and observations using pictures, numbers, and words</p>

**Success Criteria for Proficient in Scientific Practices:**

**The student can:**

- collect data and makes observations using tools.
  - five senses
  - computing devices
  - hand lenses
  - primary balances
  - cups
  - bowls
  - magnets
  - collecting nets
  - notebooks
  - safety goggles
  - timing devices
  - non-standard measuring items
  - demonstration thermometers
  - materials to support observations of habitats of organisms
- record and organizes data and observations.
  - pictures
  - numbers
  - words
- use science tools to make multiple observations about the investigation.
  - five senses

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