

# Kindergarten Side by Side



2021 Knowledge and Skill Statement/Student Expectation	2021 Text	2017 Knowledge and Skill Statement/ Student Expectation	2017 Text	Notes from TEA Staff
SCIENCE.K.1	<p><u>Scientific and engineering practices</u>. The student asks questions, <u>identifies problems and plans</u></p>			
SCIENCE.K.1.A	<p>ask questions <u>and define problems based on observations or information from text, phenomena, models, or investigations</u>;</p>	K.2.A	ask questions <u>about organisms, objects, and events observed in the natural world</u> ;	
SCIENCE.K.1.B	<p><u>uses scientific practices</u> to plan and conduct <u>simple</u> descriptive investigations and <u>use engineering practices to design solutions to problems</u>;</p>	K.2.B	plan and conduct simple descriptive investigations;	
SCIENCE.K.1.C	<p>identify, describe, and demonstrate safe practices during classroom and <u>field</u> investigations as outlined in Texas Education Agency approved safety standards;</p>	K.1.A	<p>identify, discuss, and demonstrate safe and healthy practices as outlined in Texas Education Agency approved safety standards during classroom and <u>outdoor</u> investigations, <u>including wearing safety goggles or chemical splash goggles as appropriate, washing hands, and using materials appropriately</u>; and</p>	
SCIENCE.K.1.D	<p>use tools, including hand lenses, <u>goggles, trays, cups, bowls, sieves or sifters, notebooks, terrariums, aquariums, samples (rocks, sand, soil, loam, gravel, clay, seeds, and plants), windsock, demonstration thermometer, rain gauge, straws, ribbons</u>, non standard measuring items, <u>blocks or cubes, tuning fork, various flashlights, small paper cups, items that roll, noise makers, hot plate, opaque objects, transparent objects, foil pie pans, foil muffin cups, wax paper</u>;</p>	K.4	<p><u>use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment</u>.</p>	
SCIENCE.K.1.E	<p>collect observations and <u>measurements as evidence</u>;</p>	K.2.C	<p>collect <u>data and make observations using simple tools</u>;</p>	
SCIENCE.K.1.F	<p>record and organize data using pictures, words, and <u>graphs</u>;</p>			
	<p><u>Scientific and engineering practices</u>. The student <u>analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence based arguments or evaluate designs</u>. The student is expected to:</p>	K.3	<p><u>Scientific investigation and reasoning</u>. The student knows that <u>information and critical thinking are used in scientific problem solving</u>. The student is expected to:</p>	<p>When students analyze and interpret data, they use critical thinking skills to solve problems. The new standard has provided more detail about what student learning will look like.</p>

SCIENCE.K.2.A	<u>Identify basic advantages and limitations of models such as their size, properties, and materials;</u>			
SCIENCE.K.2.B	<u>Analyze data by identifying significant features and patterns</u>	K.3.B	<u>Make predictions based on observable patterns in nature, and</u>	
SCIENCE.K.2.C	<u>Use mathematical concepts to compare two objects with common attributes; and</u>			
SCIENCE.K.2.D	<u>Evaluate a _____ compare _____ for _____</u>			
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SCIENCE.K.13.A	Organisms and environments. The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	K.10	Organisms and environments. The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments. The student is expected to:	
SCIENCE.K.13.B	Identify the <u>structures</u> of plants, <u>including roots, stems, leaves, flowers, and fruits</u> ;	K.10.B	identify <del>basic</del> parts of plants and animals;	
SCIENCE.K.13.C	Identify the different structures that animals have that allow them to interact with their environments such as seeing, hearing, moving, and grasping objects;	K.10.A	<del>sort plants and animals into groups based on physical characteristics such as color, size, body covering, or leaf shape;</del>	Elementary science does not cover sorting organisms according to their physical characteristics.
SCIENCE.K.13.D	<u>Identify and record</u> the changes from seed, seedling, plant, flower, and fruit in a simple plant life cycle; and	K.10.D	<del>observe changes that are part of a simple life cycle of a plant seed, seedling, plant, flower, and fruit.</del>	
SCIENCE.K.13.E	Identify ways that young plants resemble the parent plant.	K.10.C	identify ways that young plants resemble the parent plant; and	
KEY	<u>Blue double underline: indicates content new to the grade level</u>		<del>Orange strike through: indicates content was deleted</del>	
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