

Grade K5 Science Student Assessment Form
Grade K5 Exit Expectations Checklist

Science as Inquiry	GRADE LEVEL	Q1	Q2	Q3	Q4
• Know that learning can come from careful observations and simple experiments	K4-2	I	D	D	D
• Know that in science it is helpful to work with a team and share findings with others	1-2				
• Recognize that science is a part of everyday life	K4-2	I	D	D	D
• Recognize that students are scientific thinkers	1-2				
• Make observation and report properties of objects	1-2				
• Notice discrepant events	1-2				
• Use past experiences and observations to make predictions	K4-2	I	D	D	D
• Utilize problem solving skills in science exploration	K4-2	I	D	D	D
• Recognize that math is an important tool of science	1-2				
• Collect, record, and communicate data accurately	K4-2	I	D	D	D
• Explore features and functions of living and non-living things	K4-2	I	D	D	D
• Group by comparing common and measurable properties	K4-2	I	D	D	D
• Investigate objects and materials that have similarities and differences	K4-2	I	D	D	D
• State the properties of objects using the five senses	K4-K5	I	D	D	D
• Note the patterns and the exceptions to the patterns	K4-2	Math			
• Use standard and non-standard units of measurement to compare and graph	K5-2		I	D	
• Observe, describe, and record changes	K4-2	I	D	D	D
• Know that tools can be used to gather information and extend the senses	K4-2	I	D	D	
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Physical Science	GRADE LEVEL	Q1	Q2	Q3	Q4
• Discover that objects and materials have similarities and differences	K4-2	I	D	D	D
• Know that different objects are made up of many different types of materials and have many different observable properties	K4-2	I	D	D	D
• Discover that changes can be made to materials to alter some of their properties but not all materials respond the same way to what is done to them	K4-2	I	D	D	D
• Identify how properties of materials determine how they can be used	K4-2	I	D	D	D
• Know that things move in different ways	K4-2	I	D	D	D
• Know that the position and motion of an object can be changed by pushing or pulling	1				
• Know that things near the Earth fall to the ground unless something holds them up	1				
• Know that magnets can be used to make some things move without being touched	1				
• Know that the Sun supplies heat and light to Earth	1				
• Observe that non-living things do not move by themselves	1				
• Understand that energy is needed for things to grow or move	K4-2				I
• Know that heat can be produced in many ways					

Physical Science	GRADE LEVEL	Q1	Q2	Q3	Q4
• Know that electricity in circuits can produce light, heat, sound, and magnetic effects	1				
• Know that light travels in a straight line until it strikes an object					
• Identify the primary colors of pigment as red, yellow, and blue	K4-2	I			
• Identify the secondary colors of pigment as green, orange and purple. They are made by mixing primary colors.	K4-2	I	D	D	D
• Discover that white light can be split up into the colors of the rainbow	2				
• Demonstrate that the rainbow, or spectrum is a pattern	2				
• Demonstrate that colors can be created in a variety of ways	2				
• Relate how sounds in our environment can be used to identify objects, to communicate, and to obtain information	K4 & 2				
• Discover that vibrations cause sound	2				
• Know that vibrating objects produce sound	2				
• Analyze how sounds can be compared by their properties	2				
• Investigate how properties of objects affect the sounds they make when they vibrate					
• Relate how different kinds of vibrations cause different kinds of sounds	2				
• Demonstrate how sounds travel through air and sometimes through solids to reach our ears	2				
• Know that sound may be harmful to our ears	K4-2	I	D	D	D
• Investigate how water does not appear or disappear; it is constant but can change states	K4-2			I	
• Investigate water and how it can be compared to other liquids by observing properties of each					
• Show that water takes the shape of its container	K5 & 2			I	
• Show that water can change	K4-2			I	
• Discover that water has weight	K5 & 2			I	
• Observe that different objects sink and float in water	K4-K5	I	D	D	D
• Investigate how our senses help us to gain information about our environment and identify properties of materials	K4-K5	I	D	D	D
• Investigate how our ears allow us to hear sound differences, quality, and direction					
• Investigate how our noses allow us to distinguish different smells					
• Investigate how our skin enables us to use our sense of touch					
• Investigate how our eyes provide us with our sense of sight					
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Life Science	GRADE LEVEL	Q1	Q2	Q3	Q4
• Know that living things are found almost everywhere in the world and that distinct environments support the life of different types of plants and animals	K4-2			I	D
• Investigate living things that have recognizable characteristics	1				
• Know and investigate that plants and animals need certain resources for energy and growth	K5-2				I
• Know that plants and animals closely resemble their parents	1				
• Know that plants and animals have features that help them live in different environments	1				
• Know that some kinds of organisms that once lived on the Earth have completely disappeared	K4,K5 & 2				I
• Illustrate that water is a habitat	K4-2			I	

Life Science	GRADE LEVEL	Q1	Q2	Q3	Q4
• Recognize that all life is a gift from God (*1)	K4-2	I	D	D	D
• Observe that most plants have stems, roots, flowers, leaves, and buds	K4-1				I
• Describe how different plants live in different habitats	1-2				
• Discover that many kinds of seeds are found in the environment	1				
• Discover that a seed contains a baby plant (embryo), food, and has a seed coat	K4-1				I
• Investigate how seeds sprout and infer how they grow into plants	I				
• Discover that seeds travel in different ways	K4&1				
• Communicate that people and animals use plants in many ways	1				
• Infer that people can use what they know about plant needs to care for plants	K4-1				I
• Discover that there is a great diversity of animals	K5-2				I
• Identify that animals are vertebrates or invertebrates					
• Show that animals have observable behaviors	1 & 2				
• Illustrate that animals have life cycles					
• Observe that animals move, grow, change, and reproduce	1				
• Discover that animals need certain conditions to grow and survive	1				
• Understand that different animals have different types of homes	1 & 2				
• Investigate how animal tracks provide clues about animals	K5 & 2				I
• Observe that human bodies have similarities and differences					
• Observe that human body parts have functions that are adapted for special tasks					
• Analyze how the senses of humans can be compared to those of other animals					
• Relate how seasons and weather affect animals and plants	1-2				
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Earth and Space Science	GRADE LEVEL	Q1	Q2	Q3	Q4
• Understand that we live on the planet Earth	K4-2	I	D	D	D
• Discover that different materials have different properties	2				
• Know that Earth materials consist of solid rocks, soils, liquid water, and the gases of the atmosphere					
• Know that rocks come in many different shapes, textures, and sizes	1				
• Observe that rocks have similarities and differences	1				
• Observe that rocks have different properties	1				
• Discover that rocks of different sizes have different masses					
• Discover that erosion can change rocks and landscapes	2				
• Investigate how the observable properties of sand change when sand is mixed with water					
• Show that rocks and sand have weight					
• Show that sand takes the shape of the container it is in	K4-K5	I	D	D	D
• Identify the Earth's surface as mostly water					
• Know that water can be liquid or solid and can be made to change from one form to another, but the amount of water stays the same	2				
• Investigate water and how it can be compared to other liquids by observing the properties of each					
• Infer that the water cycle plays a role in weather					

• Relate how water is used in many ways	2				
Earth and Space Science	GRADE LEVEL	Q1	Q2	Q3	Q4
• Demonstrate that water has many properties	K5 & 2			I	
• Communicate that water is found in different places	2				
• Know that short-term weather conditions can change daily and weather patterns change over the seasons	K4-1	I	D	D	D
• Demonstrate that air exists and takes up space	2				
• Relate that air has many uses	1				
• Discover that air temperature varies with time and place	K4, K5, 1	I	D	D	D
• Discover that wind is moving air and has strength and direction	2				
• Identify how rainy, sunny, snowy, and cloudy days have similarities and differences					
• Relate that rain and snow come from clouds	K4-2	I	D	D	D
• Know the basic patterns of the movement of the sun and the moon	1				
• Know that the stars are innumerable, unevenly dispersed, and of unequal brightness	1				
• Identify that the Earth is one of many planets in the solar system	1				
• Discover that gravity is a force that pulls objects toward Earth	1				
• Relate that the Earth is a planet that supports life	1-2				
• Relate the Earth is surrounded by air called the atmosphere					
• Illustrate that an astronaut needs to adapt to living and working in space	1				
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Science and Technology	GRADE LEVEL	Q1	Q2	Q3	Q4
• Recognize that technology affects our lives in many ways					
• Recognize that science is assisted by technology					
• Recognize and illustrate how space technology is used in everyday life					
• Discover that people who lose the use of one sense compensate with the other senses and with technology					
• Investigate how models represent the real thing	K5-2	I	D	D	D
• Investigate how a structure is affected by balance, stability, and the material of which it is made					
• Discover that the base of a structure determines its stability					
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Science in Personal and Social Perspective	GRADE LEVEL	Q1	Q2	Q3	Q4
• Identify God as the maker of everything in the environment (*7)	K4-2	I	D	D	D
• Understand the basic rights of people (*3)	K4-2	I	D	D	D
• Share self and material things for the good of others (*2,4)	K4-2	I	D	D	D
• Recognize examples of social responsibility (*2)	K4-2	I	D	D	D
• Can name bad elements that hurt the environment (*7)	K4-2	I	D	D	D
• Demonstrate that people can make the environment better by their actions (*7)	K4-2	I	D	D	D
• Participate in simple service projects that benefit others and the environment (*6,7)	K4-2	I	D	D	D
• Recognize that a diversity of careers exist in science					

• Relate that environmental conservation is important to our quality of life	K4-2	I	D	D	D
Science in Personal and Social Perspective	GRADE LEVEL	Q1	Q2	Q3	Q4
• Illustrate how people have a role in caring for the environment	K4-2	I	D	D	D
• Explain how people use science at home, in school, and in the community	1-2				
• Relate that people can affect their neighborhood environments	2				
• Infer that people can prepare for different kinds of weather	K4-2	I	D	D	D
• Show that people can conserve water					
• Evaluate how people can conserve water					
• Communicate that water should not be polluted or wasted	1-2				
• Relate that rocks, minerals, and soil are resources that should be used wisely	1-2				
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History and Nature of Science	GRADE LEVEL	Q1	Q2	Q3	Q4
• Recognize that science has a rich history					
• Recognize that the history of science plays an important role in our everyday lives					
• Recognize that science changes through time as new facts are acquired	K4-2	I	D	D	D
• Recognize that the field of science is open to anyone	K4-2	I	D	D	D
• Recognize that all cultures, races, and sexes have made contributions to science					
• Be exposed to male and female scientists who have made important contributions to the study of science					
• Know that scientific investigations generally work the same way in different places and normally produce results that can be duplicated					
• Recognize that inventions are a result of science					
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