

**K - 2 – Science Curriculum  
Student Friendly**

<b>Life Science</b>	<b>Kindergarten- Student Friendly</b>	<b>Grade 1 –Student Friendly</b>	<b>Grade 2- Student Friendly</b>
<p>LS1:K-2:1.1 Differentiate between living and nonliving things and categorize objects in each group using the significant observable characteristics they share, such as color, shape and size.</p>		<p>I can tell the difference between living things and nonliving things. I can sort objects by size, shape and color.</p>	
<p>LS1:K-2:1.2 Recognize animals and plants as living things and describe how they are alike and different.</p>		<p>I know that plants and animals are living things. I can describe how plants and animals are alike and how they are different.</p>	
<p>LS1:K-2:2.1 Recognize that plants and animals have features that help them survive in different environments.</p>		<p>I know what plants and animals need to survive in different environments.</p>	
<p>LS1:K-2:3.1 Recognize that parents and offspring of many species closely resemble one another, and describe the similarities in appearance of given plant and animal families.</p>			<p>I know that most baby plants and animals are like their parents.</p>
<p>LS1:K-2:3.2 Recognize that living things have a life cycle, during which they are born, grow, and die.</p>		<p>I know that living things have a life cycle, which includes being born, growing and dying.</p>	<p>I know that living things have a life cycle.</p>
<p>LS2:K-2:1.1 Recognize that living things can be found almost anyplace in the world, and that specific types of environments are required to support the many different species of plant and animal life.</p>		<p>I know that living things can be found almost anyplace in the world. I know that different plants and animals need different things in order to live in their environment</p>	
<p>LS2:K-2:1.2 Recognize that animals, including humans, interact with their surroundings using their senses and that different senses provide different kinds of information</p>			<p>I know that animals use their senses to live.</p>

<p>LS2:K-2:1.3 Recognize that some plants and animals go through changes in appearance when the seasons change.</p>			<p>I know that some plants and animals change with the seasons.</p>
<p>LS2:K-2:2.1 Identify the resources plants and animals need for growth and energy, and describe how their habitat provides these basic needs.</p>			<p>I know what plants and animals need to live in their habitats.</p>
<p>LS3:K-2:1.1 Recognize that some living things, which lived on Earth long ago, are now extinct, such as dinosaurs, mammoths, giant tree ferns, and horsetail trees.</p>			
<p>LS3:K-2:2.1 Recognize that some plants and animals, which are alive today, are similar to living things, which have become extinct, such as elephants and mammoths.</p>			<p>I know that some living things are now extinct.</p>
<p>LS3:K-2:3.1 Recognize and describe the similarities and differences in the appearance and behavior of plants and animals.</p>		<p>I can tell how plants and animals are alike and different.</p>	
<p>LS3:K-2:3.2 Recognize there are different species of living things in various places around the world.</p>		<p>I know that there are different types of living things around the world.</p>	

LS4:K-2:1.1 Recognize and describe how living things respond when exposed to helpful and harmful situations.		I know how living things act when they are in a good situation and when they are in a dangerous situation.	
LS4:K-2:1.2 Recognize that humans learn from each other in many different ways, such as listening and speaking, watching and imitating.	I can learn by listening, watching and doing what you do.		
LS4:K-2:1.3 Recognize that humans can gather different kinds of information about an object by adjusting their proximity to it.			I can learn more about an object by looking at it up close or by looking at it from far away.
LS4:K-2:1.4 Recognize that some of the things humans can do, such as playing games, reading, and writing, must be deliberately learned.	I can learn to play games, read, and write.		
LS4:K-2:3.1 Recognize similarities and individual differences among people, and that children may closely resemble their parents.		I know that everyone is different. I know that children are like their parents.	
LS4:K-2:3.4 Recognize and describe the human life cycle from birth to old age.			I can tell about the human life cycle.
LS4:K-2:3.5 Recognize that humans need food, water, air, waste removal and a particular range of temperature in their environment, just as other animals do.			I know what humans need to survive.
LS5:K-2:1.1 Recognize that new products can be made out of natural materials such as paper from trees, and cloth from various plants and animals.			I know that some people use science in their jobs.
LS5:K-2:4.1 Recognize that some jobs/careers require knowledge and use of life science content and/or skills.	I know that some people do science for a job.	I know what a scientist does. I know that some people use science in their jobs.	I know that products can be made from natural materials.

<b>Physical Science</b>	<b>Kindergarten- Student Friendly</b>	<b>Grade 1 –Student Friendly</b>	<b>Grade 2- Student Friendly</b>
PS1:K-2:1.1 Recognize that objects are made up of many different types of materials, such as wood, metal, and paper.			I know that some objects are made of different materials.
PS1:K-2:1.2 Recognize that objects can be made of one or more materials.			I know that objects can be made of one or more materials.
PS1:K-2:2.1 Identify the observable properties of different objects, such as color, size, shape, weight and texture.		I can sort objects by color, shape, weight, and texture.	
PS2:K-2:1.1 Describe how the properties of certain materials can change when specific actions are applied to them, such as freezing, mixing, heating, cutting, dissolving and bending.			I can tell about the properties of materials.
PS2:K-2:1.2 Recognize that not all materials react the same way when an action is applied to them.			I know that different materials change in different ways.
PS2:K-2:3.1 Recognize that sound is produced by vibrating objects and that the pitch of the sound can be varied by changing the rate of vibration. (MUSIC)			I know that when things vibrate, they can make a sound. I know that when the speed of the vibration changes we can make different sounds.
PS2:K-2:3.2 Explain that the Sun provides the Earth with heat and light.			I know that the Sun gives the Earth heat and light.
PS2:K-2:3.3 Describe that heat can be produced in a variety of ways, such as burning, rubbing, and mixing substances together.			I know that heat can be made in different ways.
PS2:K-2:3.4 Recognize that energy comes from different sources, such as electricity and water, and is used in many common objects.			I know that energy is made in different ways and is used by many things.
PS3:K-2:1.1 Describe the properties of magnetism and demonstrate how magnets can be used to make some things move without touching them.		I know how magnets work. I can use magnets to move things without touching them.	
PS3:K-2:1.2 Describe and demonstrate that things close to the Earth fall to the ground unless something supports them.	I know that things fall down to the ground unless something is holding it up.		

PS3:K-2:2.1 Describe the many different ways things can move, such as in a straight line, zigzag or circular motion, back and forth, and fast and slow.	I can name things that can zigzag, go in a straight line, go in circles, move back and forth, and go fast and slow.		
PS3:K-2:2.2 Describe and demonstrate how the position and motion of an object can be changed by applying force, such as pushing and pulling, and explain that the greater the force, the greater the change.			I can tell how and show how an object can be changed by using force.
PS3:K-2:2.3 Describe the position of an object by referencing its location in relation to another object or background.			I can describe where an object is by using position words, like front and back, up and down.
PS4:K- 2:1.1 Recognize that new objects can be made out of physical materials, such as cloth and paper.			I can tell how some things are recycled.
PS4:K-2:2.1 Identify tools and simple machines, such as a wheel, and explain how they work.			I can tell about different simple machines and how they work.
PS4:K-2:3.1 Provide examples of how man uses energy in everyday life (e.g., provide light, warmth in winter, cooling in summer, TVs, computers, telephones, transportation, factories, etc.)			I can tell how energy is used in different ways.
PS4:K-2:3.2 Provide examples of items that are manufactured or produced.			I can name things that are man-made.
PS4:K-2:4.1 Recognize that some jobs/careers require knowledge and use of physical science content and/or skills.	I know that some people do science for a job.	I know what a scientist does. I know that some people use science in their jobs.	

<b>Earth and Space Science</b>	<b>Kindergarten- Student Friendly</b>	<b>Grade 1 –Student Friendly</b>	<b>Grade 2- Student Friendly</b>
ESS1:K-2:1.1 Recognize that weather conditions change frequently, and that weather patterns change over the seasons.		I can name the four seasons in order. I can name and describe the different types of weather.	
ESS1:K-2:1.2 Describe and compare weather using observations and measurements of local weather conditions.		I can tell about today’s weather. I can say how it is different from yesterday or from a different season or from a different part of the world.	
ESS1:K-2:6.1 Explain that large rocks can be broken down into smaller rocks.			I know that smaller rocks come from larger rocks.
ESS1:K-2:6.2 Describe rocks and soils in terms of their physical properties.			I can tell you about rocks and soils. I can tell you that they can be different colors, shapes, and sizes.
ESS2:K-2:1.1 Recognize the basic patterns of the Sun, including its appearance during the daytime, and how its position in the sky changes through the seasons.			I know how the Sun affects night and day. I know how the Sun affects the seasons.
ESS2:K-2:1.2 Recognize the basic patterns of the Moon, including its appearance sometimes at night and sometimes during the day, and how it appears to change shape through the month.			I know the patterns of the Moon, how it looks and how it changes throughout a month.
ESS2:K-2:2.1 Recognize that the light and heat the Sun provides to the Earth is necessary for life.			I know that we need the Sun to live.
ESS2:K-2:4.1 Recognize the Sun, Moon and stars all appear to move slowly across the sky.			I know that the Sun, Moon and stars all seem to move slowly across the sky.
ESS2:K-2:4.2 Recognize that as the position of the Sun changes in relation to the Earth it creates shadows of varying length and direction.			I understand how shadows are made.
ESS3:K-2:2.1 Recognize there are too many stars to count, and that they are unequal in their brightness.			I know there are too many stars to count. I know that some stars are brighter than others.
ESS4:K-2:2.1 Recognize, and with assistance, safely demonstrate the use of tools to gather data and extend the senses, such as thermometers, hand lens, and balances.		I can use science tools correctly and safely to help me learn.	
<b>ESS4:K-2:4.1</b> Recognize that some jobs/careers require knowledge and use of Earth science content and/or skills		I can tell what a scientist does or how people use science in their jobs.	I know that some people use science in their jobs.

