

Grade 2 - Science Curriculum

Earth and Space Science GLE	Student Friendly Language
<p>ESS1:K-2:6.1 Explain that large rocks can be broken down into smaller rocks.</p>	<p>I know that smaller rocks come from larger rocks.</p>
<p>ESS1:K-2:6.2 Describe rocks and soils in terms of their physical properties.</p>	<p>I can tell you about rocks and soils. I can tell you that they can be different colors, shapes, and sizes.</p>
<p>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.</p>	<p>I know how the Sun affects night and day. I know how the Sun affects the seasons.</p>
<p>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.</p>	<p>I know the patterns of the Moon, how it looks and how it changes throughout a month.</p>
<p>ESS2:K-2:2.1 Recognize that the light and heat the Sun provides to the Earth is necessary for life.</p>	<p>I know that we need the Sun to live.</p>
<p>ESS2:K-2:4.1 Recognize the Sun, Moon and stars all appear to move slowly across the sky.</p>	<p>I know that the Sun, Moon and stars all seem to move slowly across the sky.</p>
<p>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.</p>	<p>I understand how shadows are made.</p>
<p>ESS3:K-2:2.1 Recognize there are too many stars to count, and that they are unequal in their brightness.</p>	<p>I know there are too many stars to count. I know that some stars are brighter than others.</p>
<p>PS2:K-2:3.2 Explain that the Sun provides the Earth with heat and light.</p>	<p>I know that the Sun gives the Earth heat and light.</p>
<p>ESS4:K-2:4.1 Recognize that some jobs/careers require knowledge and use of Earth science content and/or skills.</p>	<p>I know that some people use science in their jobs.</p>

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ESS1:K-2:7.1 Explain that water can be a liquid or a solid, and that it can be made to change from one form to the other, but the amount of water stays the same in either state.	I know that the amount of water stays the same whether it is a liquid or a solid.
ESS4:K-2:3.1 Differentiate between natural and man-made materials.	I know the difference between things that come from nature and things that are man-made.
ESS4:K-2:3.2 Identify environments that are natural (e.g. forest, meadow, mountains) and those that have been built or modified by people (e.g. cities, roads, farms, and houses).	I can tell parts of the world that are made by nature and parts that were changed by people.
ESS4:K-2:3.3 Describe actions that can help the environment, such as recycling and proper disposal of waste materials.	I know how to take good care of the environment.

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Life Science GLE	Student Friendly Language
<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.</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>I know that some living things are now extinct.</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 things alive today are like ones that are extinct.</p>
<p>LS4:K-2:1.3 Recognize that humans can gather different kinds of information about an object by adjusting their proximity to it.</p>	<p>I can learn more about an object by looking at it up close or by looking at it from far away.</p>
<p>LS4:K-2:3.4 Recognize and describe the human life cycle from birth to old age.</p>	<p>I can tell about the human life cycle.</p>

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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 products can be made from natural materials.

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Physical Science GLE	Student Friendly Language
<p>PS1:K-2:1.1 Recognize that objects are made up of many different types of materials, such as wood, metal, and paper.</p>	<p>I know that some objects are made of different materials.</p>
<p>PS1:K-2:1.2 Recognize that objects can be made of one or more materials.</p>	<p>I know that objects can be made of one or more materials.</p>
<p>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.</p>	<p>I can tell about the properties of materials.</p>
<p>PS2:K-2:1.2 Recognize that not all materials react the same way when an action is applied to them.</p>	<p>I know that different materials change in different ways.</p>
<p>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)</p>	<p>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.</p>
<p>PS2:K-2:3.3 Describe that heat can be produced in a variety of ways, such as burning, rubbing, and mixing substances together.</p>	<p>I know that heat can be made in different ways.</p>
<p>PS2:K-2:3.4 Recognize that energy comes from different sources, such as electricity and water, and is used in many common objects.</p>	<p>I know that energy is made in different ways and is used by many things.</p>
<p>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.</p>	<p>I can tell how and show how an object can be changed by using force.</p>
<p>PS3:K-2:2.3 Describe the position of an object by referencing its location in relation to another object or background.</p>	<p>I can describe where an object is by using position words, like front and back, up and down.</p>

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<p>PS4:K-2:1.1 Recognize that new objects can be made out of physical materials, such as cloth and paper.</p>	<p>I can tell how some things are recycled.</p>
<p>PS4:K-2:2.1 Identify tools and simple machines, such as a wheel, and explain how they work.</p>	<p>I can tell about different simple machines and how they work.</p>
<p>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.)</p>	<p>I can tell how energy is used in different ways.</p>
<p>PS4:K-2:3.2 Provide examples of items that are manufactured or produced.</p>	<p>I can name things that are man-made.</p>