

		What causes moving objects to stop?	 two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. K-2-ETS1.2 - Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. K-2-ETS1.1 - Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. 	blocks, etc.).	direction friction force
December	Enduring Understandings	Essential X Questions	Standards 🛛 🕅	Knowledge 💥 & Skills	Academic Language
January	Enduring Understandings ^{XX}	Essential X Questions	Standards X	Knowledge 💥 & Skills	Academic Language
ary	Grade Kindergarten	Science Molecule	s to Organisms		
February	Enduring Understandings ^{××}	Essential X Questions	Standards X	Knowledge 💥 & Skills	Academic Language
	 All animals need food, water, air and shelter in order to live and grow. Plants need light, water, air and soil to order to survive. Plants and animals are similar and different. 	 Why do animals and plants need food to grow? What do animals and plants need to grow? 	K-2.LS1.C - Organization for matter and energy flow in organisms ~ Animals obtain food they need from plants or other animals. Plants need water and light. K-LS1.1 - Use observations to describe patterns of what plants and animals (including humans) need to survive.	 Students will observe and compare plants and animals. Students will know how organisms (plants and animals) interact with each other and nonliving part of their habitat to meet their basic needs. Students will be able to use reading and writing skills to inquire, think critically, and apply scientific concepts to new situations. Students will be able to use their sense to make and describe careful observations. Students will recognize that patterns exist in our habitat. 	 Tier 2 Vocabulary animal plant habitat living water food light air soil shelter characteristic Tier 3 Vocabulary organism nutrients

	 The Earth is made of different surfaces. How sunlight has different effects on Earth 	How does a structure refuse the warming effects of sunlight on a surface?	determine the effect of sunlight on Earth's surface.	ible to make	
May	Grade Kindergarter Enduring Understandings	Essential Questions	Standards 🛛 🕅	Knowledge & Skills	Academic Language
				humans use natural resources for everything they do.	
A	 Enduring Understandings A persons actions effect and influence other people and places. All living things depend on each other to survive. 	Essential Questions (*) What are the needs of humans to survive in an environment? What choices can people make to reduce their impact on the land, water, air and other living things? How do people's choices and actions impact the environment?	Standards K-ESS3.1 - Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. K-ESS3.3 - Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.* K-ESS2.2 - Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.	 able to describe the relationship between living things and their environment and what they need to survive. Students will be able to describe the relationship between their needs and where they live. Students will know the effects of their choices on the environment and other living things. Students will be able to give an example on how to reduce their impact on the environment and/or living things. Students will know 	Image Image
April March	Understandings ^{&}	Questions ×	Standards X	& Skills	Language
Ч	Enduring 😽	Essential 😡	W.K.7 - Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them).	Knowledge 💥	Academic 📈
				Students will use venn diagrams to compare and contrast animal and plant needs.	

Surfaces.		reduce the warming effect of sunlight	materials (sand, soil,	soil
Identify an observable boattern when something comes between the Earth's surface and the sun. That some objects reflect/absorv sunlight. How different structures will reduce the warming effect on an area.	What are the effects of sunlight on different surfaces?	on an area.*	 Students will be able to make observations to determine the effect of sunlight on the Earth's surface. Students will be able to observe a pattern when something comes between the Earth's surface and the sun. Students will be able to compare 2 different materials to see which objects reflects/absorbs more sunlight. Students will be able to use tools and materials to design and build a structure that will reduce the warming effect of 	sand water plants ice effect sunlight observations/observabl pattern between sun collect data comparisons/compare materials objects relects absorbs reduce tools design engineer device solve problem structure build
		W.K.7 - Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them).	sunlight on an area. Students will explore (touch & look) different examples of Earth surfaces. Learn new vocabulary. Label different Earth surfaces.	
			Students will be able to make observations, making comparisons, collecting data, having discussions about the effects sunlight has on the different Earth surfaces.	
			Students will be able to act out what happens when an observable pattern blocks sunlight.	
			Students will be able to comparing/contrasting 2 materials to see which one reflects/absorbs more sunlight.	
			Students will be able to build a structure that will reduce the warming effect of sunlight on	

				an area.		
			K.MD.A.2 - Describe and compare measurable attributes ~ Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference. SL.K.3 - Ask and answer questions in order to seek help, get information, or			
			clarify something that is not understood.			
June	Enduring Understandings [×]	Essential X Questions	Standards 8	<pre>Knowledge & Skills</pre>	Academic Language	22
July	Enduring Understandings	Essential X Questions	Standards 8	<pre>Knowledge & Skills</pre>	Academic Language	×