

PreK-ESS1. Earth's Place in the Universe	
PreK-ESS1-1. Observe and describe different apparent shapes of the moon and demonstrate awareness that the moon can be seen in the daytime and at night.	
PreK-ESS1-2. Observe and use evidence to explain that sun is in different places in the sky during the day.	
The performance expectations above were developed using the following elements from the NRC document <i>A Framework for K-12 Science Education</i> :	
Science and Engineering Practices Asking Questions and Solving Problems/Designing Things (Engineering) <ul style="list-style-type: none"> Observe and ask questions about observable phenomena (objects, materials, organisms or events). (PreK-ESS1-1), (PreK-ESS1-2) Constructing Explanations/Theories and Evaluating Solutions (Engineering) <ul style="list-style-type: none"> Look for and describe patterns and relationships. (PreK-ESS1-2) 	Disciplinary Core Ideas ESS1.A: The Universe and Its Stars <ul style="list-style-type: none"> Patterns of the motion of the sun, moon, and stars in the sky can be observed, described, and predicted. (PreK-ESS1-1, PreK-ESS1-2)
Connections to other DCIs in pre-K:	
Articulation of DCIs across grade-bands:	
Common Core State Standards Connections:	
ELA/Literacy –	
Speaking and Listening: Presentation of Knowledge and Ideas	
<ul style="list-style-type: none"> Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly (PK.SL.MA.4.) 	
Mathematics-	
Geometry: Identify and Describe Shapes	
<ul style="list-style-type: none"> Identify relative position of objects in space, and use appropriate language (PK.G. MA.1.) 	

PreK-ESS2. Earth's Systems	
PreK-ESS2-1. Raise questions and engage in discussions about how different types of local environments (including water) provide homes for different kinds of living things.	
PreK-ESS2-2. Observe, investigate and classify the non-living materials, natural and human made, in their environment.	
PreK-ESS2-3. Explore and describe the different places water is found in the local environment	
PreK-ESS2-4. Use simple instruments to collect and record data on elements of daily weather.	
PreK-ESS2-5. Describe how local weather changes from day to day and over the seasons and recognize patterns in those changes.	
PreK-ESS2-6. Understand the impact of weather on living things. [Clarification statement: Make connections between the weather and what they wear and can do and the weather and the needs of plants and animals for water and shelter.]	
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Science and Engineering Practices Asking Questions and Solving Problems/Designing Things (Engineering) <ul style="list-style-type: none"> Observe and ask questions about observable phenomena (objects, materials, organisms or events). (PreK-ESS2-1) Planning and Carrying Out Investigations <ul style="list-style-type: none"> Use their senses and simple tools to observe, gather, and record data (e.g., dictate, draw, photograph, write). (PreK-ESS2-2), (PreK-ESS2-3), (PreK-ESS2-4) Constructing Explanations/Theories and Evaluating Solutions (Engineering) <ul style="list-style-type: none"> Look for and describe patterns and relationships. (PreK-ESS2-5) Make Meaning from Experience and Data <ul style="list-style-type: none"> Apply their ideas to new situations (PreK-ESS2-6) 	Disciplinary Core Ideas ESS2.A: Earth Materials and Systems <ul style="list-style-type: none"> The materials on the land, provide homes for living things. (PreK-ESS2-1) ESS2.B: Plate Tectonics and Large-Scale System Interactions <ul style="list-style-type: none"> Rocks, soils, and sand are present in most areas where plants and animals live. There may also be rivers, streams, lakes, and ponds. (PreK-ESS2-2) ESS2.C: The Roles of Water in Earth's Surface Processes <ul style="list-style-type: none"> Water is found in the ocean, rivers, lakes, and ponds. (PreK-ESS2-3) ESS2.D: Weather and Climate <ul style="list-style-type: none"> Weather is the combination of sunlight, wind, snow or rain, and temperature in a particular region at a particular time. People measure these conditions to describe and record the weather and to notice patterns over time. (PreK-ESS2-4), (PreK-ESS2-5)
Connections to other DCIs in Pre-K:	
Articulation of DCIs across grade-bands:	
Common Core State Standards Connections:	
ELA/Literacy –	
Speaking and Listening: Comprehension and Collaboration	
<ul style="list-style-type: none"> Ask and answer questions in order to seek help, get information, or clarify something that is not understood. (PK.SL.MA.3) 	
Mathematics: PK.MA.MD.	

PreK-ESS3. Earth and Human Activity	
PreK-ESS3-1. Engage in discussion and raise questions using examples about how humans use local resources (e.g., soil, water) to meet their needs.	
PreK-ESS3-2. Observe and discuss the impact of people’s activities on the local environment.	
The performance expectations above were developed using the following elements from the NRC document <i>A Framework for K-12 Science Education</i> :	
Science and Engineering Practices Engaging in Discussion/Argument from Evidence <ul style="list-style-type: none"> Engage in discussion before, during and after investigations. (PreK-ESS3-1), (PreK-ESS3-2) Obtain, Evaluate, and Talk About Information <ul style="list-style-type: none"> Use first hand interaction wit objects and organisms, media, and books to gather information. 	Disciplinary Core Ideas ESS3.A: Natural Resources <ul style="list-style-type: none"> Living things need water, air, and resources from the land, and they try to live in places that have the things they need. Humans use natural resources for everything they do: for example, they use soil and water to grow food, wood to burn to provide heat and clay and wood to build shelters. (PreK-ESS3-1) ESS3.C: Human Impacts on Earth Systems <ul style="list-style-type: none"> Things that people do to live comfortably can affect the world around them. But they can make choices that reduce their impacts on the land, water, air, and other living things—for example, by reducing trash through reuse and recycling. (PreK-ESS3-2)
<i>Connections to other DCIs in Pre-K:</i>	
<i>Articulation of DCIs across grade-bands:</i>	
<i>Common Core State Standards Connections:</i> <i>ELA/Literacy –</i> <i>Speaking and Listening: Comprehension and Collaboration</i> <ul style="list-style-type: none"> <i>Participate in collaborative conversations with diverse partners during daily routines and play (PK.SL.MA.1.)</i> <i>Mathematics-</i>	