



<p><b>Solid Earth</b> 3 weeks</p> <p><b>Surface Changes</b></p>	<p><b>E.SE.03.13 Recognize</b> and describe different types of Earth materials (mineral, rock, clay, boulder, gravel, sand, soil).  <b>E.SE.03.14 Recognize</b> that rocks are made up of minerals.</p> <p><b>E.SE.03.22 Identify and describe</b> natural causes of change in the Earth's surface (erosion, glaciers, volcanoes, landslides, and earthquakes).</p> <p><b>E.SE.03.31 Identify</b> Earth materials used to construct some common objects (for example: bricks, buildings, roads, glass).</p> <p><b>E.SE.03.32 Describe</b> how materials taken from the Earth can be used as fuels for heating and transportation.</p>	<p>Science Closet – rocks and books: volcano, earthquakes,</p> <p>Video Streaming Learn360</p> <p>Library videos:  Rocks: The Solid Earth #1 &amp; #2  Uses of Rocks and Minerals  Bill Nye: Earth's Crust  Bill Nye: Earthquakes  Bill Nye: Erosion  Bill Nye: Rocks and Soil</p> <p>Scott Foresman Text Pages: 198-201, 202-205, 206-209, 222-225, 226-229, 230-233, 244-245, 250-253, 254-257, 258-259</p>
<p><b>Science Process-Inquiry</b></p> <p>Incorporated Throughout Trimester</p>	<p><b>S.IP.03.11</b> Make purposeful observations of Earth materials to describe them in terms of color, particle, size, texture, and ability to hold water.</p> <p><b>S.IP.03.11</b> Make purposeful observations of rocks and minerals to determine that rocks are made up of minerals.</p> <p><b>S.IP.03.12</b> Generate questions based on observations of Earth materials.</p> <p><b>S.IP.03.13</b> Plan and conduct simple and fair investigations to determine the ability of Earth materials to hold water.</p> <p><b>S.IP.03.14</b> Manipulate simple tools that aid observation and data collection (hand lens, <b>balance, scale</b>, graduated cylinder, stop watch/timer).</p> <p><b>S.IP.03.15</b> Make accurate measurements with appropriate units (grams, centimeters, milliliters, minutes, seconds) for the measuring tool.</p> <p><b>S.IP.03.16</b> Construct simple charts and graphs from data and observations generated in Earth material investigation.</p>	<p>Scott Foresman Text Pages: 4, 26-27, 36, 58-59, 68, 90-91, 100, 128-129, 140-143, 148  162-163, 172, 184-185, 196, 210-211, 220, 234-235, 244, 258-259, 268-271  144, 272, 416, 512  90-91, 148, 184-185, 210-211, 268-271, 290-291, 314-315, 356, 378-379, 412-415, 452, 466-467, 476, 508-511</p>

<p><b>Inquiry and analysis</b></p> <p>Incorporated Throughout Trimester</p>	<p><b>S.IA.03.11</b> Summarize information from charts and graphs to determine the ability of a variety of Earth materials to hold water.</p> <p><b>S.IA.03.12</b> Share ideas about Earth materials through purposeful conversation in collaborative groups.</p> <p><b>S.IA.03.13</b> Communicate and present findings of observations and investigations into Earth materials.</p> <p><b>S.IA.03.14</b> Develop research strategies and skills for information gathering to find out about a variety of Earth materials that are used to construct common items and used as fuels for heating and transportation.</p> <p><b>S.IA.03.15</b> Compare and contrast sets of data from multiple trials of the Earth material investigation to explain reasons for differences.</p>	<p>Scott Foresman Text Pages: 26-27, 90-91, 94, 133, 184-185, 235, 291 143, 271, 324, 356, 415, 511 276, 290-291, 300, 314-315, 324, 244-245, 256, 278-279, 388, 402-403</p>
<p><b>Reflection and Social Implications</b></p> <p>Incorporated Throughout Trimester</p>	<p><b>S.RS.03.11</b> Use data/samples as evidence to separate fact from opinion regarding the ability of different Earth materials to hold water.</p> <p><b>S.RS.03.12</b> Use evidence when communicating findings from Earth material investigations.</p> <p><b>S.RS.03.13</b> Demonstrate how Earth materials are used to construct some common objects and are taken from the Earth as fuels for heating and transportation through illustrations and models.</p> <p><b>S.RS.03.14</b> Identify technology used to find and remove Earth materials to be used for building and fuel.</p> <p><b>S.RS.03.16</b> Describe the effect humans have on the balance of the natural world through the used of Earth materials.</p>	<p>Companion Document – State website</p> <p>Scott Foresman Text Pages: 13, 108, 159, 257, 307, 371, 439, 464, 488 143, 271, 324, 356, 415, 511 26-27, 90-91, 94, 133, 184-185, 235, 291 19, 303, 329, 336, 392, 425, 434, 456, 459, 462-463, 476-477, 478-483, 484-489, 490-497 87, 127, 303, 463, 487</p>

