

LINCOLN PUBLIC SCHOOLS
Science Learning Expectations: Grade 3

<p>EARTH/PHYSICAL SCIENCE: <i>Rocks & their Properties</i> <i>Properties & Motion of Objects</i></p> <hr/> <p>Massachusetts Standard(s): <i>- Give a simple explanation of what a mineral is and some examples (e.g., quartz, mica).</i> <i>-Identify the physical properties of minerals (hardness, color, luster, cleavage, and streak) and explain how minerals can be tested for these different physical properties.</i> <i>-Differentiate between properties of objects (e.g., size, shape weight) and properties of materials (e.g., color, texture, hardness)</i></p>	<p>Big Ideas:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Rocks are composed of one or more minerals, which are each, composed of a single substance. <hr/> <p>Key Outcomes:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Students will understand that Earth's materials can be broken down into individual components that have observable and measurable properties by classifying "unknown" minerals. <hr/> <p>Essential Knowledge and Skills: <i>Students will know...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> How to use scientific inquiry* to access, explore and explain their understanding of core knowledge <input type="checkbox"/> Rocks are continually changing and forming new rocks <input type="checkbox"/> There are three types of rocks; metamorphic, sedimentary, and igneous <input type="checkbox"/> The Earth is made up of layers of rocks: the crust, the mantle, and the core <input type="checkbox"/> Volcanoes, landslides and earthquakes are naturally occurring events that quickly change the surface of the Earth <input type="checkbox"/> Rocks change from heat and pressure the properties of rocks and minerals determine how they're used. <input type="checkbox"/> Identify the three main types of rocks <input type="checkbox"/> Describe the properties of rocks that reflect the way they were formed and the minerals in them illustrate and label the layers of the earth <p>*Scientific Inquiry Standards are embedded in each unit of study</p>
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