

1st Grade

Rocks, Fossils, and Dinosaurs

NYS Standard 4 (Science): Physical Setting (PS)

- ✓ **Key Idea 2: Many of the phenomena that we observe on Earth involve interactions among components of air, water, and land.**
- ✓ **Key Idea 3: Matter is made up of particles whose properties determine the observable characteristics of matter and its reactivity.**

NYS Standard 4 (Science): Living Environment

- ✓ **Key Idea 3: Individual organisms and species change over time.**
- ✓ **Key Idea 5: Organisms maintain a dynamic equilibrium that sustains life.**

Major Understandings	Learning Experience/Objectives	Supporting Terms
<p>PS 3.1b Matter has properties (color, hardness, odor, sound, taste) that can be observed through the senses.</p> <p>PS 3.1c Objects have properties (length, width, volume, size, shape, mass, or weight, temperature, texture, and reflectiveness) that can be observed and measured.</p> <p>PS 3.1e The material an object is made up of determine some specific properties of the objects (sink/float).</p> <p>PS 3.1f Objects and/or materials can be sorted or classified according to their properties.</p> <p>PS 3.2c Changes in the properties or the materials of objects can be observed and described.</p> <p>PS 2.1d Erosion and deposition result from the interaction among air, water, and land.</p> <ul style="list-style-type: none"> • Interaction between air and water breaks down earth materials. • Pieces of earth material may be moved by air, water, wind, and gravity. • Pieces of earth material will settle or deposit on land or in the water in different places. • Soil is composed of broken-down pieces of living and nonliving earth material. 	<p>Getting Started: Students will discuss their ideas and background knowledge of rocks, fossils, and dinosaurs and create a KWHL chart.</p> <p>Looking at Rocks and Fossils: Students will observe the properties of color, size, shape, and texture of rocks and fossils.</p> <p>Making an Artificial Fossils Rock: Students will observe changes in properties of materials through creating an artificial rock.</p> <p>What Can We Learn About Sand?: Students will observe and record properties of different sands.</p> <p>What Can We Find Out About Soil?: Students will observe and describe physical properties of soil.</p>	<p>Properties, rocks, fossils, color, large texture, smooth round, size, small, sharp, flat, jagged, big, little, compare, sample, artificial, Plaster of Paris, teaspoon, rounded, glacial till, imprint, mold, mixture, mixing, hardening, gritty, hard, rough, powder, crystal, settle, soil, potting soil, sink, float, shake, Trilobites, Eurypteris</p>
<p>LE 3.1a Each animal has different structure that serve different functions in growth, survival, and reproduction.</p> <ul style="list-style-type: none"> • Wings, legs, or fins enable some animals to seek shelter and to escape predators. • The mouth, including teeth, jaws, and tongue, enables some animals to sense their surroundings. 	<p>What Can We Find Out About Dinosaurs and Reptiles? Students will identify dinosaur/reptile adaptations that help them live in their environment.</p>	<p>Model, scale, predator, carnivore, herbivore, omnivore, diorama</p>

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<ul style="list-style-type: none">▪ <i>Claws, shells, spines, feathers, fur, scales, and color of body covering enable some animals to protect themselves from predators and other environmental conditions, or enable them to obtain food.</i>▪ <i>Some animals have parts that are used to produce sounds and smells to help the animal meet its needs.</i>		
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