

Unifying Theme: Pebbles, Sand & Silt

Essential Standard and Clarifying Objectives
1.E.2 Understand the physical properties of Earth materials that make them useful in different ways.
1.E.2.1 Summarize the physical properties of Earth materials, including rocks, minerals, soils, and water, that make them useful in different ways.
1.E.2.2 Compare the properties of soil samples from different places relating their capacity to retain water, nourish and support the growth of certain plants.
Unpacking
What does this clarifying objective mean a child will know, understand and be able to do?
1.E.2.1 Students know earth materials include solid rocks, soil and water, which all have different observable properties. Students know from prior experiences that earth materials (matter) may be described by their physical properties (e.g., color, size, shape, weight, texture, flexibility). Students know that earth materials that retain their shape regardless of the container they occupy are classified as solids. Students know that water is an earth material that takes the shape of the container it occupies and is classified as a liquid. Students know that earth materials have different properties that sustain plant and animal (to include human) life. Students know that some Earth materials have properties that make them useful in solving human problems.
1.E.2.2 Students know that soils have different properties based on where they are located on the earth. Students know that some soils retain more water, nutrients and provide better structural support than other and therefore enhance the growth and development of certain plants.