Elementary Science: Unit-at-a-Glance

Grade Level: 2 Unit: Earth Science: Soil and Erosion

Unit Problem Scenario: Students will identify erosion and/or soil problems on the school grounds and devise a plan to solve them.

Lesson #	Essential Learning	Vocabulary
1	There are natural (weather and animals) concerns and human (pollution, overuse) concerns, which affect the condition of the soil on school grounds.	 Human Natural Concerns Soil Pollution Litter Condition Observe Investigation
2	Soil samples can be classified by texture, shape, color, size and dampness.	 Texture Shape Color Size Dampness Organisms Describe Compare Classify
3	Soil layers according to heaviest particles on bottom to lightest particles on top.	 Layers Heavy Light Particles Label Predictions
4	One way soil is formed is by the rubbing and breaking down of rocks that occurs overtime in nature. Harder rocks do not produce as much soil as softer rocks.	WeatheringRubbingGrindingCrumbling

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		Breaking Measure
5	The four main layers of soil are soil underfoot, topsoil, subsoil, and parent rock.	 Layers Soil underfoot Topsoil Subsoil Parent rock Humus Bacteria Minerals Natural resource
6	The water retention of different soils varies. Soil with smaller particles retains more water than soil with larger particles.	 Milliliters (ml) Sample Topsoil Mulch Potting soil Sand Most likely Equal Explain
7	Erosion is the loss of soil. Natural causes of erosion include: wind, water, and extreme temperatures.	• Erosion • Identify
8	Soil erosion can be reduced by using rocks, mulch, and grass to cover the soil.	PlanDesignConstructModelPrevent
9	The effectiveness of certain materials can be measured. Clear water run off indicates an effective erosion control method. Brown water indicates erosion has taken place.	 Evidence Measuring cup

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10	The activities of humans (e.g. building projects) and other organisms can affect soil by causing erosion and creating pollution.	 Landfill Litter Rubbish
11	Some organisms are found in landfills that help materials breakdown. All things do not break down at same rate.	RecycleWasteDisposeDecompose
12	Create a plan to solve a schoolyard soil problem involving litter and/or erosion.	