Unit: Soil Science AS 1

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Lesson	4:	5011	lexture

Are All Soil Particles the Same Size?

Objective: To observe the amount of sand, silt, and clay in three soil samples.

Activity Length: Two class periods

Materials and Equipment:

• Three quart jars with lids

- Soil samples
- Water
- Paper and pencil or markers

Procedure:

- 1. Obtain three soil samples from different locations.
- 2. Fill three quart jars about two-thirds full of water.
- 3. Place one soil sample in each jar. Place lid on jars and hand tighten.
- 4. Shake each jar vigorously.
- 5. Place jars on table and let the soil settle.
- 6. Allow a 24-hour period of time for the soil to completely settle.
- 7. Place an index card or heavy stock paper beside each jar and draw a diagram showing different layers for each soil sample.
- SOIL CHART

 Clay
 Silt
 Fine Sand
 Coarse
 Sand

- 8. Label each layer of each sample.
- 9. Observe each soil sample and record the information in the table below. Measure and record the amount of sand, silt, and clay.

Soil Type	Sample #1	Sample #2	Sample #3
Coarse Sand			
Fine Sand			
Silt			
Clay			

Unit: Soil Science			AS 1 (Continued)
Lesson 4: Soil Texture		Name	
	Are All Soil Partic	les the Same Size?	
	Key Qu	estions:	
1. Which samples will	hold the most water	?	
2. What sample has th	ie most open space be	etween the soil particles?	