Soil Shake-Up Lab Sheet

1. Fill a jar ½ full using School Soil Sample from Lesson 1. Remove any rocks and break up any clumps of soil.
2. Fill the jar with water leaving space at the top to allow for shaking.
3. Place the lid on the jar and shake for 1-2 minutes. The soil should be thoroughly mixed.
4. Set the jars to the side. While the soil settles, complete observation 1.
5. Allow the mixture to settle for about 3 minutes. Without disturbing the jar, with a sharpie marker, draw a line to indicate the top of the soil that has settled at the bottom. Measure in cm. (This will be the sand.)
6. Complete observation 2.
7. After several hours, Repeat the step 5 and complete observation 3. (This will be the silt.)
8. After 24-48 hours, repeat the step 5 and complete observation 4. (This will be the clay).
9. Calculate the percentage of each type of soil in the sample using the algorithm chart.

Observation 1:

Observation 2:

Observation 3:

Observation 4:

Reading	Elapsed Time	Height in cm.
A.	After 3 minutes	
B.	After several hours	
C.	After 24-48 hours	

Total is the height measurement after 24-48 hours (Reading C).

Total = _____cm

	Amount	**Percentage:**
Sand	(Reading A):	Sand ÷ total = _____ x 100 = _____%
Silt	(Reading B-A):	Silt ÷ total = _____ x 100 = _____%
Clay	(Reading C-(A+B)):	Clay ÷ total = _____ x 100 = _____%