

Soil (Pedosphere) Investigation

Soil Particle Density Data Sheet

Note: All measurements should be made without the stopper/cap!!

Date soil is mixed with water: year _____ month _____ day _____

Study Site: _____

Horizon number: _____

How has the soil been stored since it came out of the oven? _____

Length of time since the soil was dried in the oven: _____

Other comments: _____

Sample Number			
	1	2	3
Mass of empty flask (g) (B below)			
Mass of soil + empty flask (g) (A below)			
Mass of water + soil + flask (g) (D below)			
Water temperature (°C) (F below)			

Calculation Worksheet

Sample Number			
	1	2	3
A Mass of soil + empty flask (g)			
B Mass of empty flask (g)			
C Mass of soil (g) (A - B)			
D Mass of water + soil + flask (g)			
E Mass of water (g) (D - A)			
F Temperature of water (°C)			
G Density of water (g/mL) (approximately 1.0)			
H Volume of water (mL) (E/G)			
I Volume of soil (mL) (100 mL - H)			
J Soil particle density (g/mL) (C/I)			