Soil Texture:

Total height of all soil (mL) Initial Measurement	**Height of sand (mL)** Measurement at 2 minutes	**Height of sand + silt (mL):** Measurement at 1 hour	**Height of silt (mL):** *Calculate:* (Height of sand + silt) - (Height of sand)

Your Name:

Instructions:

Fill in the squares that are **yellow** with the measurements you took.

Fill in the squares that are **blue** with calculations using your measurements.

This is an individual assignment! Work on your own and submit your completed

spreadsheet to dan.bregar@corvallis.k12.or.us as an e-mail attachment.

Height of clay (mL): *Calculate:* (Total height of all soil) - (Height of sand + silt)	**% sand** *Calculate:* Height of sand / Total height of all soil	**% silt** *Calculate:* Height of silt / Total height of all soil	**% clay** *Calculate:* Height of clay / Total height of all soil

Soil texture *From soil texture triangle*

Soil Moisture:

Mass of empty petri dish (g): Empty glass measurement	**Mass of petri dish + wet soil (g):** Measurement with fresh, wet soil	**Mass of petri dish + dry soil (g):** Measurement after drying in oven	**Mass of dry soil alone (g):** *Calculate:* (Mass of petri dish + dry soil) - (Mass of empty petri dish)

Mass of wet paper filter (g): Measure paper filter after soaking with water	**Mass of filter + saturated soil (g):** Measurement after pouring soil into paper filter and draining	**Mass of saturated water alone (g):** *Calculate:* (Mass of filter + saturated soil) - (Mass of wet paper filter) - (Mass of dry soil alone)

Soil Water Content (%): *Calculate:* (Mass of water) * 100 / (Mass of dry soil)	**Soil Water Holding Capacity (%):** *Calculate:* (Mass of saturated water) * 100 / (Mass of dry soil)

Mass of water alone (g): *Calculate:* (Mass of petri dish + wet soil) - (Mass of petri dish + dry soil)