

Name: _____ Date: _____ Class: _____

Soil and Biochar Mixture Lab Sheet

Predictions

Might biochar affect each soil type's ability to retain water? _____

If so, would it increase or decrease water retention for each soil type?

Which type of soil/biochar mixture do you expect to retain the most water? _____

Data Collection Instructions

- Record your water retention levels in the table below.
- Subtract the volume of the drained water in the graduated cylinder from the volume of water you started with (100 ml).
- Record the difference in the amount of water retained column.

Part 1: Soil

Soil Type	Amount of Water Collected	Amount of Water Retained
Sand		
Loam		
Clay		

Analysis Questions

Which soil type was best at retaining water? _____

Which soil type was worst at retaining water? _____

Name: _____ Date: _____ Class: _____

Part 2: Soil/Biochar Mixtures

Type of Soil and Biochar Mixture	Amount of Water Collected	Amount of Water Retained
Sand/Biochar Mixture		
Loam/Biochar Mixture		
Clay/Biochar Mixture		

Analysis Questions

1. Did biochar affect each soil type's ability to retain water? Explain.

2. Did biochar increase or decrease each type of soil water retention level? Explain.

3. Which type of soil/biochar mixture retained the most water?