

Name: _____

GY 111L Physical Geology Lab
Sediment Analysis Lab

Your Task: To become more familiar with sediment and analysis of sediment. In order to do this, you will work in groups to determine the grain size, shape and sorting characteristics of 4 types of sediment. Each row of students will work together to analyze one sediment sample. At the end of the lab, all data will be shared with other students. Essentially you have to fill in the data tables for each of the sediment samples and then plot up histograms to show the distribution of particles sizes (in weight percent).

Due Date: Wednesday October 22 (by 2:30 PM)

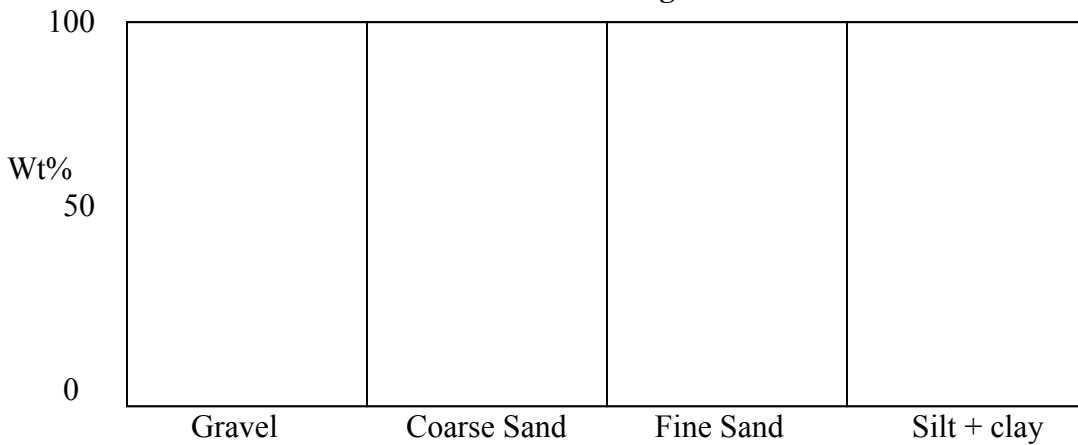
Sample 1: Starting (bulk sample) weight: _____ (grams)

Sediment type	Weight of fraction (g)	Weight % of fraction
Gravel (< 2.0 mm)		
Coarse Sand		
Fine Sand		
Silt+clay		

Visual description of sediment

- 1) Grain sorting (choose from excellent, good, fair, poor) _____
- 2) Grain rounding (choose from angular, fair, well) _____
- 3) Composition (choose from siliciclastic, biochemical, organic) _____

Grain Size Histogram



4) Most likely depositional environment (choose from beach, river channel, alluvial fan, shelf):

5) Why did you conclude this?

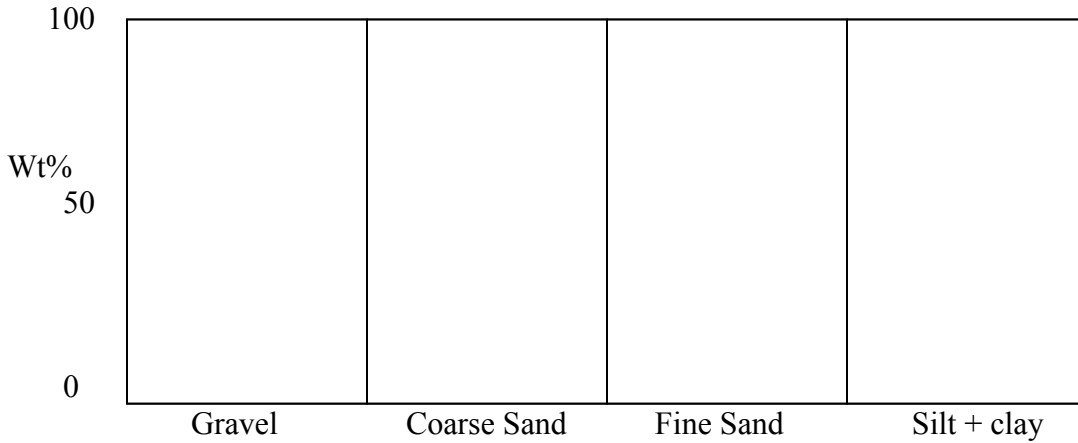
Sample 2: Starting (bulk sample) weight: _____ (grams)

Sediment type	Weight of fraction (g)	Weight % of fraction
Gravel (< 2.0 mm)		
Coarse Sand		
Fine Sand		
Silt+clay		

Visual description of sediment

- 1) Grain sorting (choose from excellent, good, fair, poor) _____
- 2) Grain rounding (choose from angular, fair, well) _____
- 3) Composition (choose from siliciclastic, biochemical, organic) _____

Grain Size Histogram



4) Most likely depositional environment (choose from beach, river channel, alluvial fan, shelf):

5) Why did you conclude this?

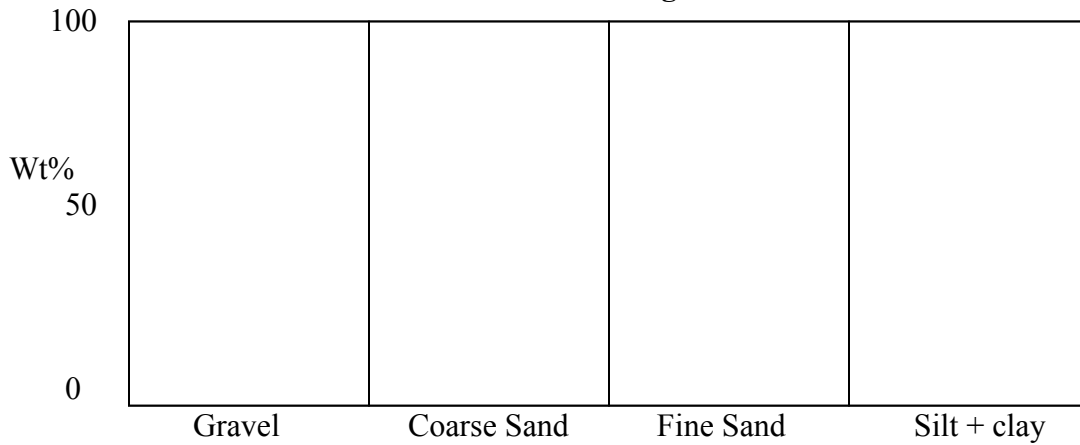
Sample 3: Starting (bulk sample) weight: _____ (grams)

Sediment type	Weight of fraction (g)	Weight % of fraction
Gravel (< 2.0 mm)		
Coarse Sand		
Fine Sand		
Silt+clay		

Visual description of sediment

- 1) Grain sorting (choose from excellent, good, fair, poor) _____
- 2) Grain rounding (choose from angular, fair, well) _____
- 3) Composition (choose from siliciclastic, biochemical, organic) _____

Grain Size Histogram



4) Most likely depositional environment (choose from beach, river channel, alluvial fan, shelf):

5) Why did you conclude this?

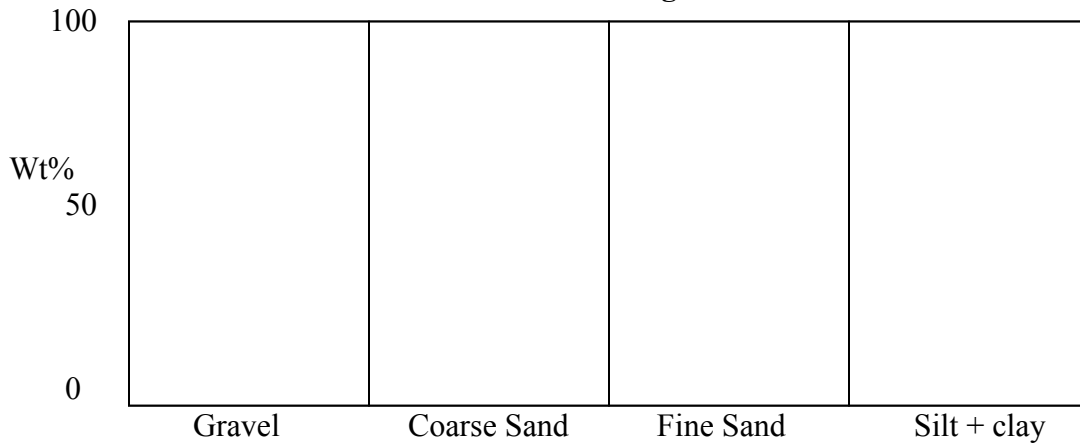
Sample 4: Starting (bulk sample) weight: _____ (grams)

Sediment type	Weight of fraction (g)	Weight % of fraction
Gravel (< 2.0 mm)		
Coarse Sand		
Fine Sand		
Silt+clay		

Visual description of sediment

- 1) Grain sorting (choose from excellent, good, fair, poor) _____
- 2) Grain rounding (choose from angular, fair, well) _____
- 3) Composition (choose from siliciclastic, biochemical, organic) _____

Grain Size Histogram



4) Most likely depositional environment (choose from beach, river channel, alluvial fan, shelf):

5) Why did you conclude this?