

Geology 101, Fall 2006

Name:

Assignment 3: Weathering, erosion and sedimentary rocks

Define/distinguish the following terms:

physical (mechanical) weathering vs. chemical weathering

Name an example of each type of weathering listed above.

soil vs. regolith

Given the two terms above, what would the meteorite-impact-weathered material on the surface of the Moon be considered?

compaction vs. cementation

clastic (detrital) rocks vs. chemical rocks

grain size vs. grain shape vs. grain sorting

Name a sedimentary structure, and what it tells us about the rock's history

graded beds vs. cross-beds

ripple marks vs. mudcracks

Name a depositional environment, and a sedimentary structure that might be found in a rock that was deposited in that area.

hydrothermal alteration vs. metamorphism

lithostatic pressure vs. directed pressure

List the three types of metamorphism and one line each that distinguishes each from the others.

index mineral vs. protolith