6. Lecture

- ♦ 1/8 Sediment rock texture
- ♦ 2/8 Mineral composition
- ♦ 3/8 Sorting
- ♦ 4/8 Grain roundness
- ♦ 5/8 Grainsize
- ♦ 6/8 Fossil
- ♦ 7/8 Deposition environment
- ♦ 8/8 Rock name

1/8 Sediment rock texture

- ♦ Clastic
- ♦ Chemical / crystalline
- ♦ Bioclastic

2/8 Mineral composition

- ♦ Calcite CaCO₃ and Quartz SiO₂ are the most common minerals
- ♦hydrochloric acid HCI

$$2HCl + CaCO_3 - CaCl_2 + H_2O + CO_2$$
 (gas)

$$\Leftrightarrow$$
HCl + SiO₂ --- HCl + SiO₂

3/8 Sorting

Well Sorted --- Poorly Sorted

4/8 Grain roundness

Well Rounded --- Very Angular

5/8 Grainsize

♦e.g. Micro-crystalline, crystalline, fine, medium coarse, very coarse

6/8 Fossil

♦Yes or No

7/8 Deposition environment

♦e.g. terrestrial, marine, lacustrine, shallow marine,

8/8 Rock name

♦e.g. quartz-rich breccia, chert, sandstone, shale, conglomerate, limestone, shale, chalk, coquina, limestone, etc.