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)
- $HCl + SiO_2$ --- $HCl + SiO_2$

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.