

Sediments and Sedimentary Rocks

Solidified Weathering Products

Size Sorting

- The different minerals that form as weathering products have different characteristic grain sizes.
- Un-weathered material has largest grain size.
- Quartz sand is 0.1 to 2 mm.
- Clays are less than 0.001 mm (1 μ m).
- Ca⁺², Na⁺¹, CO₃⁻², SO₄⁻², and Cl⁻ are dissolved.

Particle Sizes

Particle Size	Sediment	Rock
> 25cm	Boulder	Conglomerate
6-25cm	Cobble	Conglomerate
2 – 60 mm	Pebble	Conglomerate
0.06 – 2 mm	Sand	Sandstone
4 – 60 μ m	Silt	Siltstone
< 4 μ m	Clay	Shale