

## Sedimentary Rock Samples

Sample number	Rock name	Color	Hardness	Origin	Formation	Composition silica/calcite	Texture grain size	Classification	Fossils	Tests/minerals
27, large	Arkose, p. 229	dark rose	<2.5	continental, alluvial fan, weathered rock	rapid weathering, transportation and deposition of granites	silica, sand	sand-sized particles or larger	detrital clastic	no	quartz, feldspar, clay
23, large	Conglomerate, p. 222	rose, gray	5.5 > 4.5	continental, alluvial fan, fluvial	formed by river movement or ocean wave action	boulders, pebbles, resembles concrete	sand-sized particles, larger cobbles and pebbles	detrital clastic		quartz, feldspar, clay, no reaction with acid
8, small	Coquina	whitish tan	softer than glass	transitional, barrier beach	loose fossil debris, clam and snail shells	carbonate, limestone	broken, poorly cemented shell debris	biological	yes	calcium carbonate, fizzes
24, large	Fossil Limestone	pale gray	softer than glass	marine, algae and coral	reefs, high energy environments	calcite	shelly	biochemical, carbonate	yes	calcium carbonate, fizzes
22, large	Micrite (Limestone)	white, mocha, red	5.5 > 4.5	marine, continental shelf, abyssal plain	common carbonate rocks, quiet water	calcite, carbonate	silt-sized or microcrystalline	biochemical, carbonate		calcium carbonate, fizzes
26, large	Oil Shale, p. 231	black, gray	softer than glass	lacustrine	silt and organic debris on lakebeds and sea bottoms, low energy environments	silt and organic debris	1/16 to 1/256 mm in diameter	clastic	yes	rock that burns
7, small	Oolitic Limestone, p. 236		softer than glass	marine	warm, shallow and extremely agitated marine conditions	calcite, CaCO <sub>3</sub> carbonate	medium	chemical, non-clastic	invertebrates	rounded ooliths
25, large	Sandstone, p. 225	sandy	>5.5	marine, freshwater	marine, windblown deposits in arid continental areas	cemented by calcite, calcium carbonate, silica, or iron	1/16 to 2 mm, medium, silt-sized or sand-sized	detrital, clastic	animals, plants	quartz, feldspar, rock fragments, clay
9, small	Shale (black or grey), p. 231	black, gray	softer than glass	lacustrine	quiet water, basins, shelves, deltas, meandering rivers, flood plains, etc.	quartz and clay	1/16 to 1/256 mm in diameter	clastic	plant fossils, bones, fish	silt or clay compacted from solid rock
10, small	Siltstone, p. 232		harder than glass	continental, lacustrine, paludal	depositional, coarse silt	clays and muds	1/16 to 1/256 mm in diameter	clastic		can't see individual grains
21, big	Travertine, p. 242	white		hot springs	in caves and around hot springs	calcium carbonate	dense, crystalline rock with tan and white bands	chemical	no	calcium carbonate, fizzes