TABLE 5-2. CLASSIFICATION OF SEDIMENTARY ROCKS.

TEXTURE	PARTICLE TYPE		COMPOSITION	COMMENTS		ROCK NAME	
Detrital (Grains can be seen with the unaided eye)		Detrital Grains > 2 mm	Any rock type with quartz, chert, or quartzite predominant	Rounded particles Angular particles		Conglomerate Breccia	
	JAL GRAINS	Detrital Grains	Rock fragments, mica, clay, quartz	"Dirty" le	ooking, dark colored; apery feel	Graywacke	NES
	INDIVIDUAL	$\frac{1}{16} - 2 \text{ mm}$ (sand sized)	Quartz, with at least 25% potash feldspar	Often reddish because of potash feldspar; sandpapery feel		Arkose	SANDSTONES
			Quartz with minor accessory minerals	White, tan, brown; sandpapery feel		Quartz Sandstone	
	(Detrital grains or interlocking crystals)		Quartz and clay minerals	Gritty, 1/16-1/256 mm; some grains can be seen with hand lens		Siltstone	
			Predominantly clay minerals	Smooth, < 1/256 mm; non-laminated		Claystone, Mudstone	
Fine (Particles cannot be seen with the unaided bye)			Predominantly clay minerals	Smooth, < 1/256 mm; laminated		Shale	
			Calcite (CaCO ₃)	Consolidated; fizzes rapidly with dilute HCI		Micrite	
Fine (Particles cannot seen with the unaided eye)			Calcite (CaCO ₃)	Powdery; shells of microscopic animals; fizzes with HCI		Chalk	
Fine (Pa seen wit eye)			Dolomite (Ca,Mg) (CO ₃) ₂	Consolidated; fizzes with dilute HCl when powdered		Dolostone	
- " 			Chalcedony (SiO₂)	Light colored, hardness of 7		Chert	
			Chalcedony (SiO ₂)	Dark colored, hardness of 7		Flint	
			Carbonaceous Material	Plant Remains	Brown, soft, porous Brown Black, sooty, blocky	Peat Lignite Bituminous Coal	
				1	Medium to Coarse Grained		
Chemical or Biochemical (Crystals or other grains can be seen with the unaided eye)	INTERLOCKING CRYSTALS, OOIDS, or BIOCHEMICAL GRAINS		Calcite (CaCO ₃)	Fizzes rapidly with dilute HCI	Abundant fossils, consolidated Coids (tiny spheres) Banded Fossils & fossil fragments loosely cemented	Fossiliferous Limestone Oolitic Limestone Travertine Coquina	,
			Dolomite (Ca,Mg) (CO ₃) ₂	Fizzes with dilute HCl when powdered		Dolostone	
			Halite (NaCl)	Evaporite, tastes salty		Rock Salt	
			Gypsum (CaSO₄•2H₂O)	Evaporite, hardness of 2		Rock Gypsum	