

Sedimentary Rock ID

Name: TA's Answer

Geol 1602 Lab 1

Date: 01/21/22

Sample Number	Texture C=Clastic X=Crystalline B=Bioclastic	Mineral Composition (SiO ₂ , CaCO ₃ , etc)	Sorting and Grain Roundness	Grain Size	Fossil Present; Largely Whole or Broke? (Leaves, clams, etc)	Inferred Depositional Environment	Rock Name
1	X	SiO ₂	N/A	Micro-crystalline	N	Deep sea, marine	Chert
2	C	SiO ₂ , mica, feldspar	Angular; poorly structured	Medium	N	Terrestrial, alluvial fan	Arkose, sandstone
3	C	SiO ₂	Well sorted; rounded	Medium - fine	N	Beach, shallow marine	Quartz, sandstone
4	C	Clays	N/A	N/A	Possibly trace shell fossil	Deep marine, lacustrine	Shale
5	C	SiO ₂ , maybe	Poorly sorted; Well rounded	Very coarse	N	Terrestrial, alluvial fan	Conglomerate
6	C or X	CaCO ₃	Well sorted; Rounded	Medium – fine	N	Shallow marine	Oolitic, limestone
7	X or B	CaCO ₃	N/A	Crystalline	Yes	Shallow marine	Fossil/ferrous, limestone
8	C	SiO ₂	Well sorted; Well rounded	Fine	N	Terrestrial	Quartz, crevice, siltstone, SiO ₂
9	C	Clays	N/A	N/A	N	Marine	Shale
10	B	CaCO ₃	N/A	N/A	N	Marine	Chalk
11	C	Quartz, feldspar	Poorly sorted; Poorly rounded	Very coarse	N	Terrestrial	Breccia
12	B	Organic	N/A	N/A	N	Terrestrial	Coal
13	B	CaCO ₃	N/A	N/A	Yes	Shallow marine	Coquina
15	C	SiO ₂	Moderately – poorly sorted, moderately rounded	Medium-coarse	N	Terrestrial or marine	Coarse sandstone