	Per.
Most sedimentary rocks are composed of the weathered remains	Date
organic remains accumulate and change to solid rock. Some sed	when sait water evaporates, commentary rocks contain the fossil rema
Sedimentary rocks are classified into three groups on the basis of clastic, organic, and chemical precipitates, based on texture	, composition + how they tarried
CLASTIC, or fragmental rocks, are the most common sediment that have been weathered, eroded, deposited, compressed, and consectiments, sedimentary rock is hard because it has been compressly the weight of sediments deposited on top of the rock layers. So are three common rock forming cements. These cements are usual the sediments. Clastic rocks are classified on the basis of the size	ssed and cemented. Compression is callica (quartz), calcite (limestone) and cally deposited by water percolating the
Shale is composed of clay particles so small that they cannot be seen without magnification. Shale feels smooth and breaks into thin layers.	Clastic (fragmenta Sedimentary Rock are classified by the Size of the Grains:
Siltstone is made of larger particles, but it sometimes breaks into thin layers.	Tour of the state
Sandstone contains sand particles large enough to feel gritty. Although sandstone may show layering, it usually breaks into irregular fragments.	Siltstone: 0.0004 – 0.000 some some some some some some some some
Conglomerate may looks like a cement containing pebbles. It is composed of large, rounded particles of sediment held together by a natural cement.	Cut 5 3
1. How are sedimentary rocks classified into the three groups?	renton, English, man
2. What two changes are required to change sediments into sedimentary rock?	*
3. Three natural cements are	
4. On what basis are the clastic rocks classified?	

	(crystalline)		*	i se
*	Most Citte dois		at that settle out of solution	n in sea water
₽				
	sedimentary rocks, evaporites are	composed of relatively	soft, intergrown crystals.	you should note
	that most rocks composed of inter	composed of females;	sedimentary rocks.	1
	Composed of Inter	=	The state of the s	nd most abundant
	As ocean water evaporates, a vari	iety of salts are left beh	ind. Rock salt is the hist a	in the codimentary rock
— . ·		Li d- /eship colfi to IDP	(IIIIICIAI IIIIII)	
	- remarks resulted the street and the deposit of the common of the		Willy GARGOTT (T) CT CT	
aria Zagri — ari ili _{ga} ri "e			E KILLI OF DICCIDITATION IN III	, oo
UPST	Decision Control of the Control of t	least Calt I ake in 117211.	Office Stoning oces or room	
	York show that our part of North	America was covered b	у а порісаї ініани зса інш	ions of years ago.
e ing rege tracket	Dolostone forms by a chemical re	eaction with sea water a	s magnesium is added to o	alcite (limestone).
Vaic i				-
*	The ORGANIC sedimentary rock	ks are made from the re	mains of plant and animals	. They are called
	organic because the rocks are mad	le from material that wa	s once alive, and because t	hey all contain carbon.
Bio Clastic)		of along that lived in to	opical gramme millions of	veses ago. The plant
5	Coal is composed of the remains material fell into water where it co	or brains mar nyea m a	v as it accumulated. Comp	ression by hurial titued
2	these remains into peat, then light			
,0	burial may produce anthracite, con			
∞	omiai may produce anunaete, con	minority various made doe	a, booking is at man dot them.	
	Coquina is a variety of limestone	composed entirely of s	ea shells cemented by a ca	lcite matrix.
-40 Se ² 193	STANT AT LINES BUTS.			Anna Nama
	Natural chalk is also composed or	i the remains of very th	ly marine animal, too smal	i to be readily visible.
	Limestone is a sedimentary rock precipitating from sea water to for of sea shells. If the shells have be	m chemical limestone. en abraded into a calcit	Organic coquina limestone	is composed mostly ne is the result.
•	7. The chemical precipitate rocks	are left behind when w	hen sea water	\
	3. The solution material in sea wa			
	Sedimentary rocks composed of	of material that was one	e alive are the	rocks.
- 1	0. What is an "evaporite"?			
1	1. List the three groups of sedime	entary rocks and give tw	o examples of each.	
	Group 1:		&	
	Group 2:		&	
	Group 3:		&	-
	Sedimentary Rocks	Page 2	THE	•

The chart below is from the Earth Science Reference Tables. Use this chart to answer the following questions.

Sedimentary Rocks

	NORGANIC	LAND-DERIV	ED SEDIMEN	TARY ROCK	S
TEXTURE	GRAIN SIZE	COMPOSITION	COMMENTS	ROCK NAME	MAP SYMBOL
Clastic (fragmental)	Sand, pebbles, cobbles, boulders	Mostly quartz, feldspar, clay minerals	Particles rounded and cemented by fine particles	Conglomerate	
	Sand		Can be fine to coarse	Sandstone	
	Silt		feldspar,	Can be compact or	Siltstone
	Clay		easily split	Shale	墨

12.	What name is g	iven to a			
	fragmental rock	composed			
	of pebbles or cobbles				
	cemented togeth	ier?			
		<u>ş</u> 8			
		î			

13. What is coal made from	13.	What	is	coal	made	from
----------------------------	-----	------	----	------	------	------

14.	What clastic rock has the
	smallest grains of sediment's

15.	What nonclastic rock started
	as limestone and was made
	by a chemical replacement?

16. What rock is
represented by

0	9	۲		0
	I	جون	T	Ć.
14	دب	Т	ون	-

17.	What group of sedimentary
	rocks is classified by the size
	of the rock fragments?

18.	What	rock	is	made	of	clay?
-----	------	------	----	------	----	-------

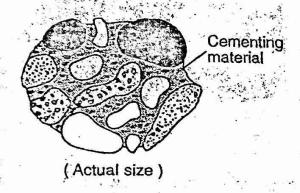
CHEMIC	ALLY AND O	RGANICALLY	FORMED SE	DIMENTARY	ROCKS
TEXTURE	GRAIN SIZE	COMPOSITION	COMMENTS	ROCK NAME	MAP SYMBOL
	*		Crystals from		era je ty
Nondastic	All sizes	Mostly halite	chemical precipitates (Incudes the	Rock Salt	Marana S.
Crystalline	All sizes	Gypsum	evaporites)	Rock Gypsum	
	All sizes Do	Do lomite	Changed from limestone by replacement	Dolostone	
(Bìo Clastic) Organic	Microscopic to coarse (larger than 0.2 cm)	Calcite	Comented shells, shell fragments, and skeletal remains	Fossiliforous Limestone	2 100 to
	All sizes	Carbon from plant remains	Black and nonporous	Coal	

19.	What common sedimentary rock is composed mostly of the mineral calcite?	

1	What is the most abundant mineral in natural rock salt?	
- 2 -	14 HET ID GIO DIOUE ED STICKED EN HISTORIA DE LIMITARIO.	

Sedimentary Rock Review

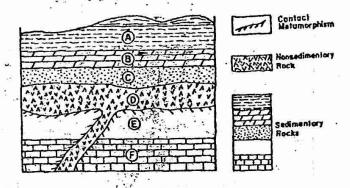
- Which sedimentary rocks are clastic and consist of particles that have diameters smaller than 0.006 centimeter?
 - (1) conglomerate and sandstone
 - (2) siltstone and shale
 - (3) bituminous coal and breccia
 - (4) fossil limestone and chemical limestone
- 23 Base your answer on the rock sample shown below.



The average size of the pebbles in the sample is approximately

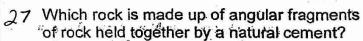
- (1) 1,2 cm
- (3) 6.4 cm
- (2) 0.2 cm
- (4) 13.2 cm
- 24 Which feature is characteristic of sedimentary rocks?
 - (1) layering.
- (3) distorted structure
- (2) foliation
- (4) glassy texture
- 25 According to the Earth Science Reference Tables, which characteristic determines whether a rock is classified as a shale, a siltstone, a sandstone, or a conglomerate?
 - (1) the absolute age of the sediments within the rock
 - (2) the mineral composition of the sediments within the rock
 - (3) the particle size of the sediments within the rock
 - (4) the density of the sediments within the rock

26 Base your answer on your knowledge of Earth science and the diagram below. The diagram represents a geologic cross section consisting of various sedimentary and nonsedimentary rocks which have not been overturned.



Rock layer E is composed of nonuniform particle sizes ranging in diameter from 0.9 to 2.3 centimeters. According to the Earth Science Reference Tables, this rock layer should be represented by which symbol?

- (1)
- (3)
- (2)
- (4)



12 7 2 5 1 4 Te

- (1) breccia
- (3) granite
- (2) scoria
- (4) quartzite
- 28 Large deposits of rock gypsum and rock salt usually form in areas of
 - (1) active volcanoes
 - (2) continental ice sheets
 - (3) fault zones in the crust
 - (4) shallow evaporating seas
- 2.9 Which sedimentary rock may form as a result of biologic processes?
 - (1) shale
- (3) fossil limestone

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- (2) siltstone
- (4) breccia