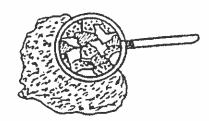
- the branch of science that studies re	rncka	ገር K
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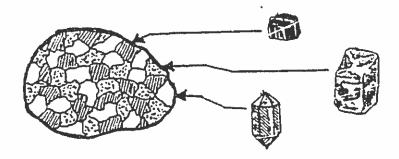
## I. CLASSIFICATION OF ROCKS

- A. Rocks are \_\_\_\_\_ on the basis of their
- B. The three groups of rocks are:
  - 1.
  - 2. \_\_\_\_\_
  - 3.

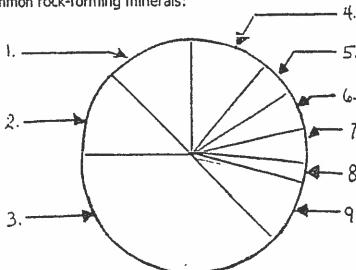


## II. ROCKS IN RELATION TO MINERALS

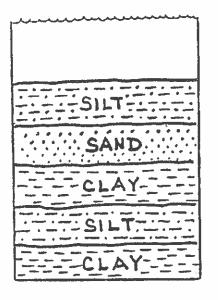
A. Many kinds of rocks are composed of \_\_\_\_\_

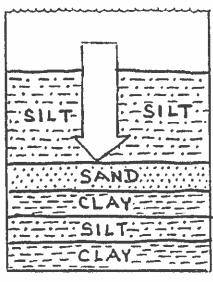


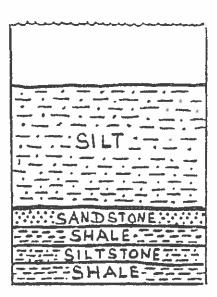
- B. Some rocks are \_\_\_\_\_\_ composed of
- C. Most rocks are \_\_\_\_\_- composed of
- D. LETTERS:WORDS::MINERALS:ROCKS
- E. There are almost \_\_\_\_\_\_types of minerals, but only \_\_\_\_\_\_ of these minerals (mineral families) make-up \_\_\_\_\_\_% of the rocks of Earth's crust.
- F. Common rock-forming minerals:



À.,		
	ì	Most sedimentary rocks are made-up of solid sediments that have been weathered from other rocks. The weathered sediments are then eroded (transported) b water, wind, and moving ice. Eventually the eroded sediments are deposited at new locations either in water or on and. Most sedimentary rocks form in layers underwater in lakes, seas or oceans.
	2.	From sediments to rocks:
		TIME







В.	Types of Sedimentary F  1	Rocks
	a	
	Ь	

individual particles of rock – sediment



Rocks and Minerals = 13 natural sediments dissolved in water





c.

ROCK NAME	GRAIN SIZE (CM)	COMMENT	MAP SYMBOL
		Various size rock	
	at the date two city day to so the day day top gay gay gay gay gay	Particles and mud	
		Silt and sand	
1		cemented together	
		Fine to coarse	
		grains cemented	
		together	
		very fine	
		grained	
		compact, may	
1		split easily	

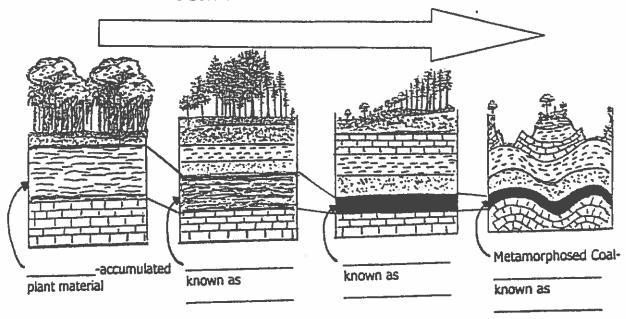
2.	

ROCK NAME	COMPOSITION	COMMENT	MAP SYMBOL
		Minerals dissolved	
		in water precipitate	
		out and forms as	
		crystals on the	
		sea floor	,
		Includes evaporites	
		Changed form of	
		limestone	
33			

3.	

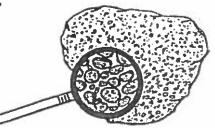
ROCK NAME	COMPOSITION/COMMENT	MAP SYMBOL
	Cemented shell fragments	
	Carbon from plant remains	

## **Formation of Coal**

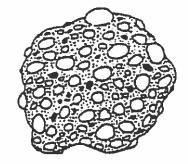


C. Important characteristics of sedimentary rocks

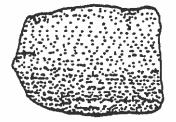
1. They are composed of rock fragments or organic particles.



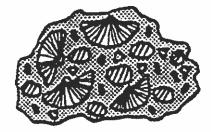
a. Some have a range of particle or sediment size



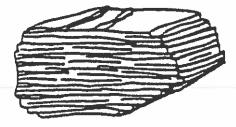
 Others consist mainly of one size of sediments – due to sorting during deposition



2. Some are organic – they form from plant and animal remains



3.



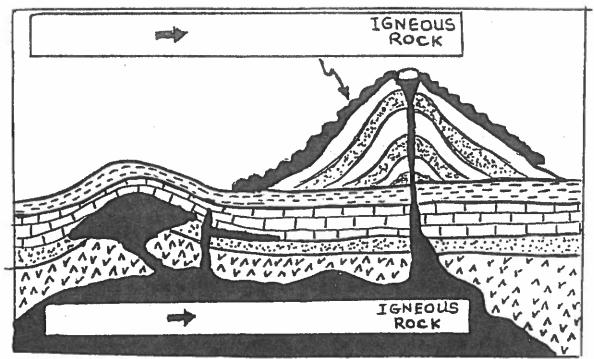
## IV. IGNEOUS ROCKS

1. When m	nolten(liquid) lava or magma	and	
a. The	of different minerals form the re rock contains a crystalline stru	cture of intergrown of	crystals of
diffe b.	erent,	and	
<i>5</i> .		×	
ypes of Igne	eous Rocks		
2			
321-33-33			





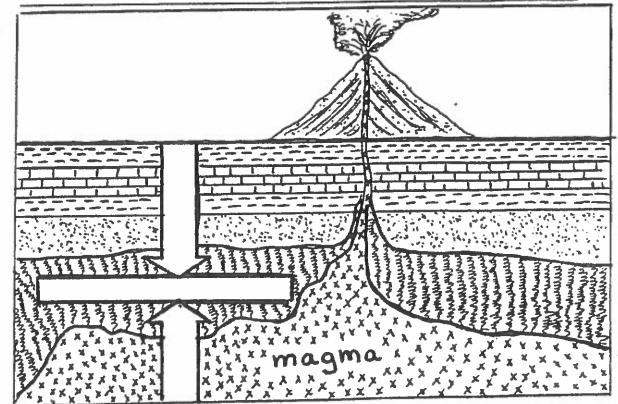






4.

	ENVIRONMEN	IT OF FORMATIO	N
	EXTRUSIVE		INTRUSIVE
w = =	(volcanic)		(plutonic)
RATE OF COOLING			
GRAIN SIZE			
TEXTURE			
EXAMPLES			



D.J. Mills @ 2000

C.	Condi	tions that cause rocks to undergo metamorphism	m include:
		1.	
		2	
		3	
	Su	ch conditions are often associated with deep bu	rial and pressure that result
	from r	nountain formation. Therefore, metamorphic ro	ocks are often found in
	mount	ainous regions where weathering and erosion h	ave exposed this rock that
	was o	nce deeply buried.	
	Un	der conditions of high temperature and high pre	essure, many metamorphic
	rocks	form by the process of	This is the growth of
	new n	nineral crystals from the sediments of a	rock or the
	growt	n of <u>new</u> mineral crystals from the crystals of an	or
		rock. Recrystallization	n occurs without true melting.
D.	Chang	ges in a rock caused by metamorphism:	<b>2</b>
	1.		
	2.		
		is a	
		layered arrangement of firmly joined	
		crystals of minerals; the minerals are	15
		aligned in layers or bands. These bands	
		are formed when rock is subjected to	
		extreme pressure and temperature.	
		Usually, the greater the pressure and	
		temperature, the thicker the bands.	
	4.	is the	~
		curving and folding of the bands. These	
		distortions of once horizontal bands are	

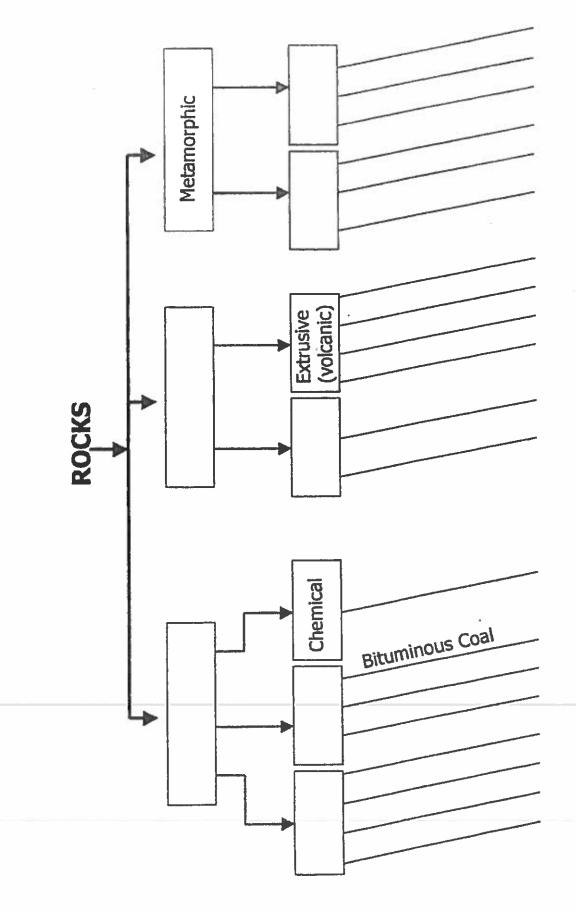
caused by great environmental pressure

exerted on the rock from different

directions.

D.J. Mills @ 2000

2		
F		
METAMORPHIC ROCK	ORIGINAL RO	CK ORIGINAL TYPE
	4	
THE ROCK CYCLE		
THE ROOM CICE	Deposition	
Entry C		
Spring.	Sediments	
South State of the	Sediments	Veathering nd Erosion
THE ROCK CYCLE	Sediments	Veathering nd Erosion
State of the state	Sediments	Veathering nd Erosion
Heat and/or	Sediments	Veathering nd Erosion
Heat	Sediments	Veathering nd Erosion



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