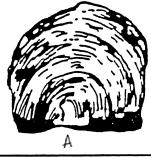
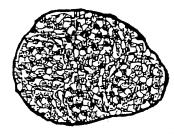
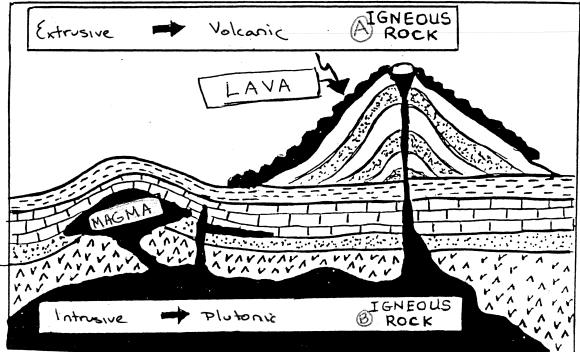
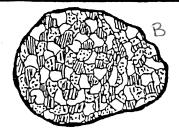
## Igneous Rock Formation











ESRTP.6

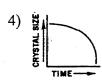
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	ENVIRONMENT OF FORMATION			
	EXTRUSIVE		INTRUSIVE	
447	(volcanic)		(plutonic)	
RATE OF COOLING	Rapid Very Fast	Fast	SLOW	
CRYSTAL SIZE	glassy non-crystalline	Vesiculan Fine	lmm-10mm (oarse -very coarse	
TEXTURE	Glassy	Vesicular	Coarse Very loarse	
EXAMPLES	Punice	Rhyolite Basalt	Granite	
	obsidian	Basalt	Cabbro	

- 1. A coarse-grained igneous rock contains plagioclase feldspars and pyroxenes, but no quartz. This rock is most likely
  - 1) basalt
- 3) granite
- 2) rhyolite
- 4) gabbro
- 2. Which graph best shows the relationship between the size of the crystals in an igneous rock and the length of time it has taken the rock to solidify?









- 3. Which rock is of felsic composition, low in density, light in color, and coarse grained?
  - 1) rhyolite
- 3) granite
- 2) basalt
- 4) gabbro
- 4. Most igneous rocks form by which processes?
- 1) melting and solidification
  - 2) heat and pressure
  - 3) erosion and deposition
  - 4) compaction and cementation
- 5. Compared to basalt, granite is coarse
  - 1) lighter in color
- Felsic
- 2) greater in density
- 3) more mafic in composition
- 4) more fine grained in texture
- 6. Which property would be most useful for identifying igneous rocks?
  - 1) kind of cement
  - 2) minefal composition
    - 3) number of minerals present
    - 4) types of fossils present

- 7. Large crystals in an igneous rock most likely form as a result of the Slow cooling
  - 1) mineral composition of the magma
  - 2) cooling rate of the magma
  - 3) fossil content of the rock
  - 4) color of the rock
- 8. A mafic igneous rock is most likely to be relatively high density identity
  - 1) high in density and dark in color
    - 2) high in density and light in color
    - 3) low in density and dark in color
    - 4) low in density and light in color
- 9. The four igneous rocks below are classified into two groups.

Group A	Group B	
Granite	Rhyolite	
Gabbro	Basalt	
coaise	FINE	

What is the basis for this classification?

- 1) density
- 3) crystal grain size
- 2) color
- 4) mineral content
- 10. Which granite sample most likely formed from magma that cooled and solidified at the slowest rate?







