Name:			
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Lab day: Tuesday Wednesday

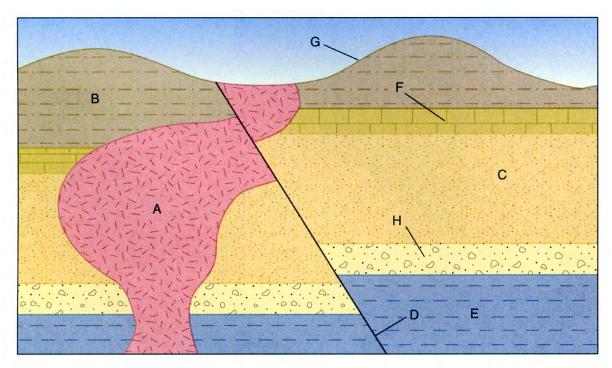
ENVG/SC 11110L-21110L Planet Earth Laboratory

Laboratory #7 Geologic Age

Readings: See the lab handout on the web site and also your textbook and lecture notes on Cross-Cutting Relationships. 80 points.

<u>Objectives</u>: Understanding relative geologic time; recognizing rock types from geologic maps and cross sections.

1) The figure below is a geologic cross section. Determine the sequence of events that led to the present situation and list them in order, from youngest to oldest, in the blank spaces provided. Use the letters on the illustrations to specify rock units or events. Identify the rock types represented by each letter from the symbols given in the cross section; identify other events by name (for example, "folding" or "uplift and erosion") and put the corresponding letter after the event name. The number of blanks equals the number of events required.



Relative Geologic Time: (8)

Youngest:			
Oldest:			

Name:_		
Name:_		

Lab day: Tuesday Wednesday

Rock-types: (6) http://www.nd.edu/~cneal/PhysicalGeo/Lab-GeologicTime/LabQuestionFigs.html

A.	
B.	
C.	

E. ______F.

2) The figure below is a geologic cross section. Determine the sequence of events that led to the present situation and list them in order, <u>from youngest to oldest</u>, in the blank spaces provided. Use the letters on the illustrations to identify the rock units from the symbols given in the figure; identify other events by name (for example, "folding" or "uplift and erosion"). The number of blanks equals the number of events required. Also, give the type of igneous

Relative Geologic Time: (14)

Youngest:

intrusion where applicable.

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	Name:_			
		Lab day:	Tuesday	Wednesday
Oldest:				

Rock-types: (9) See http://www.nd.edu/~cneal/PhysicalGeo/Lab-GeologicTime/LabQuestionFigs.html

A.	
D.	
E.	
~	
I.	

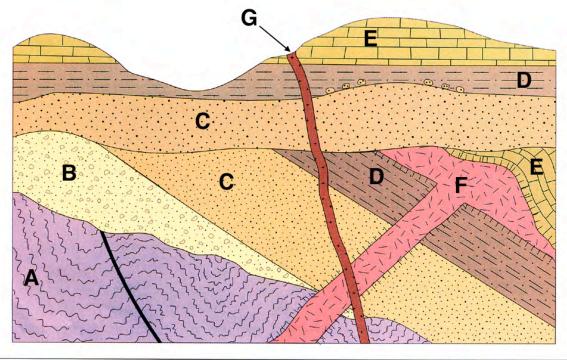


FIGURE 13.11

For Problem 5, determine the sequence of events illustrated in this cross section. Identify rock units from their symbols, and list all the events that led to the present situation. Wide line is a fault.

		Name:	
3) Identify the rock units from their symbols in the figure above using the key to rock wide black line is a fault. Study the Figure <i>carefully and label (with numbers) each diagram</i> . See http://www.nd.edu/~cneal/PhysicalGeo/Lab-GeologicTime/LabQues		y the rock units from their symbols in the figure above using the key to rock types. No lack line is a fault. Study the Figure <i>carefully and label (with numbers) each event on the transport of the transport of</i>	Note: the <i>i the</i> html a
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pre	esent situ	d list all the events in chronologic order (with "1" being the oldest) that led to the nation. If you cannot determine which of two or more rocks/events is the older, explaint: there is one case when this is so). (19) 1	in
		 2. 3. 	
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Lab day: Tuesday

Wednesday

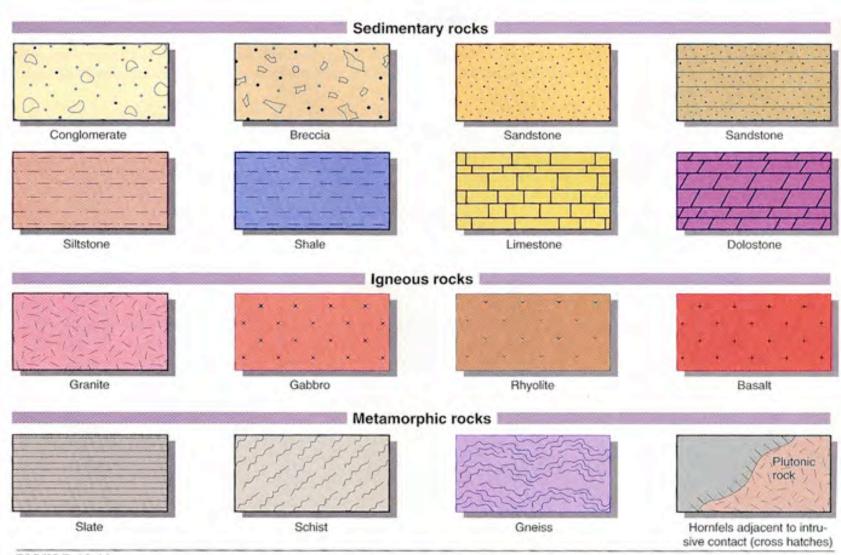


FIGURE 13.10

Symbols commonly (but not universally) used to show different kinds of rocks.

GABBRO = "X"; BASALT = "♣".