Science

Relative Dating Worksheet

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Name:			Period:
	<i>j</i>		

The Law of Superposition

In any undisturbed sequence of strata, the oldest layer is at the bottom of the sequence, and the youngest layer is at the top of the sequence.

Stratigraphic Column F Recent Beach Sand Pleistocene Beach Sand Fludstene Basalt Limestone Bolomite

Volcanic

The Cross-Cutting Law

Any feature that cuts across a body of sediment or rock is younger than the body of sediment or rock that it cuts across.

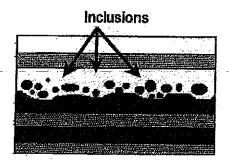
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- · A fracture is a crack in rock.
- A <u>fault</u> is a fracture along which movement has occurred.

Volcano Dite Dite Battoith Battoith

The Law of Inclusions

If one rock body contains fragments of another rock body it must be younger than the fragments of rock it contains. OR...The inclusions are older than the rocks which contain them.



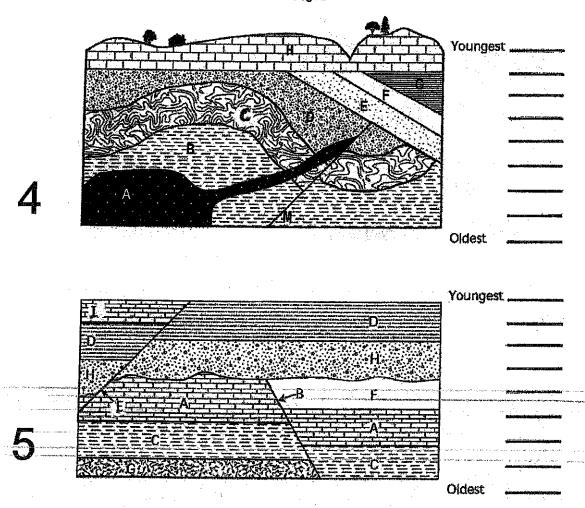
Inclusions of B are older than C.



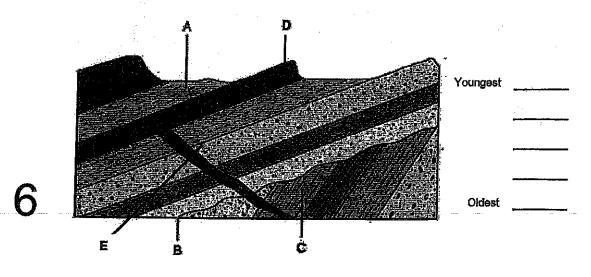
Telling Relative Time

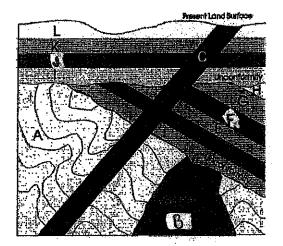
Use the laws of superposition, inclusions and cross-cutting relationships to determine the relative ages of the following cross-sections. Determine the OLDEST bed FIRST.

1	C		Youngest Oldest	
-	Stratigraphic Principle:			
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	Stratigraphic Principle:			



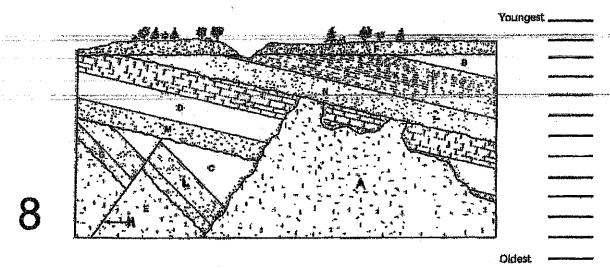
Outline the sequence of events in the cross sections below by numbering each rock unit or event in the order in which it occurred or was deposited.





Refer to the cross-section on the left. For each of the following pairs of rock layers, identify the relative dating law that would be used to determine which bed was older and which was younger. Circle the letter of the OLDER bed.

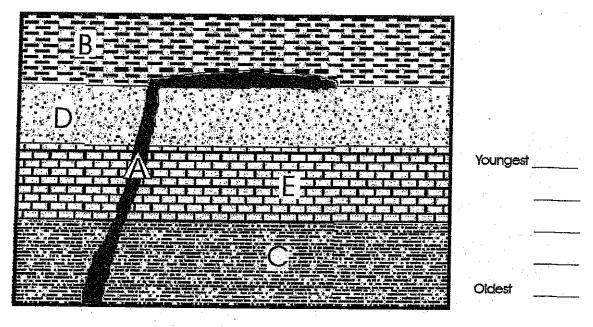
A & B	 C&D	
D&E	J&K	



Refer to the cross-section above, for each of the following pairs of rock layers identify the relative dating law that you used to determine which bed was older and which was younger. Circle the letter of the YOUNGER bed.

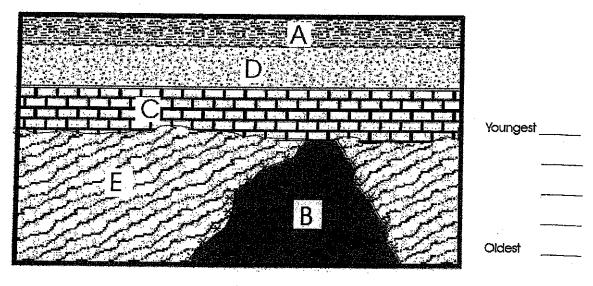
	M & A		
	J&N		·
fault	H&Clayer		
	D&M	 ·.	

Figure 1:



List the principles you used to determine the age relationships:

Figure 2:



List the principles you used to determine the age relationships:

Figure 3:

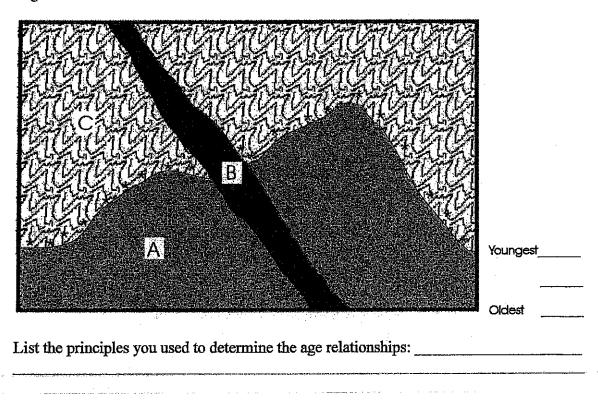
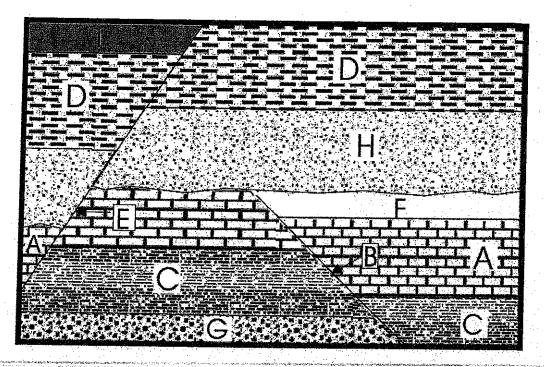


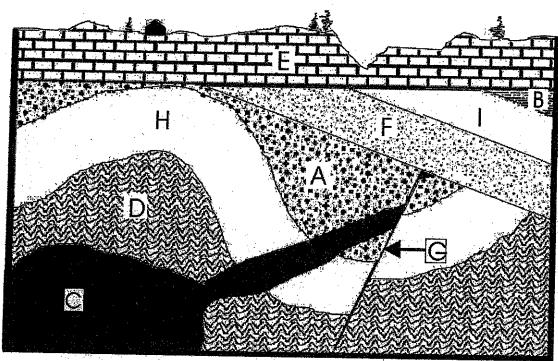
Figure 4:



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Oldest

Figure 5:



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The folding event occurred between the deposition of which two rock layers?