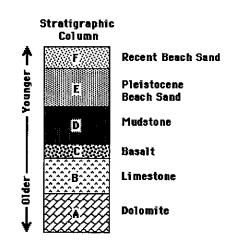
# **Relative Dating Worksheet**

Name:	
Hamo.	

# 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.



# 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.

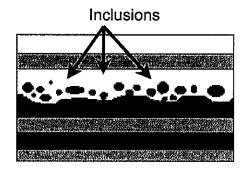
### NOTE:

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

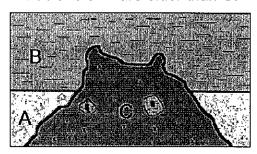
# Volcanic neck Volcano Dilce Batholith

# 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.



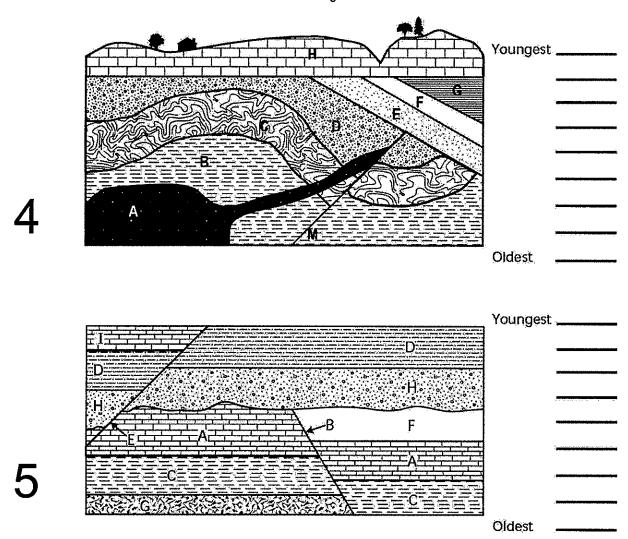
Inclusions of B are older than C.



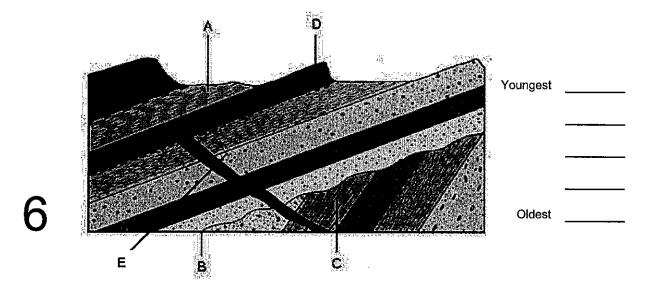
# **Telling Relative Time**

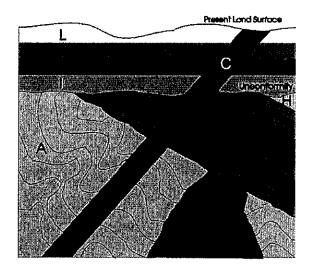
Use the laws of superposition, inclusions and cross-cutting relationships to determine the relative ages of the following cross-sections. Determine the OLDEST bed FIRST.

	C	Youngest
1	A	Oldest
	Stratigraphic Principle:	
2	D  C  B  B  B  B  C  B  C  C  C  C  C  C	Youngest
	Stratigraphic Principle:	
<b>પ</b>	D A C C C C C C C C C C C C C C C C C C	Youngest
J		



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	

	Youngest	
	7	Je B
	2 2	
		ă <del>rious romanas</del>
では、一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一		Market Laboured and de
		//
		<u> </u>
	100 mg	<u> </u>
		22mg 1 - 1 - 25 - 400 - 52 2 - 1 - 1 - 1 - 1 - 1 - 1
	2017	-
	· ·	
	Oldest	After the National

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	
H & C	
D&M	