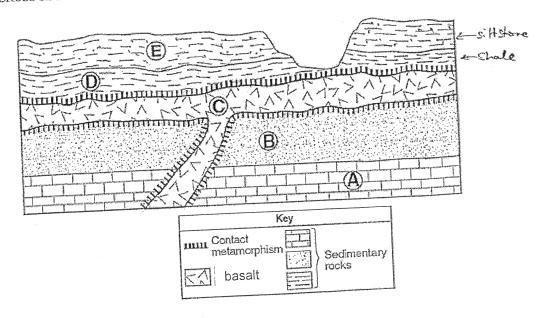
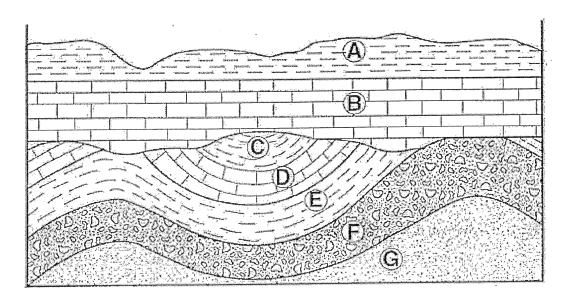
Relative Dating/Order of Events/Rock Sequences

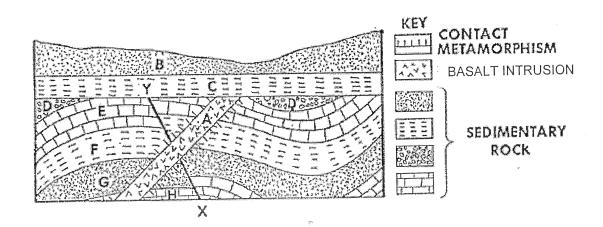
Name:	Block:	Lab Partner(s):	
Introduction:			
than most people. For geologists of Earth's existence. Geologists u	, time is referred to as geol ose both relative and absolu in order of sequence; what	ime. In fact geologist use the term "timogic time. Geologic time refers to the part dating methods to determine the agonal properties on the part of the part of the relative age of each layer.	past 4.6 billion years e of events in the
Directions:			
After answering the pre-lab quest	ions below, you will detern	nine the geologic history of each of the	three cross sections.
	f rather than the letter if yo	layer(s) that was/were involved. You nou chose. In each sequence, you will st arted to the control of the cont	
*Possible geologic events in each faulting, folding, tilting, igneous in	•	ubmergence, deposition of rock layer tact metamorphism.	, uplift, erosion,
Some events can occur simultane happen simultaneously/at the sar	· · · · · · · · · · · · · · · · · · ·	eous intrusion would cause contact met e listed as one event.	amorphism to
		you still have spaces left blank, it is poss y makes sense and does not leave anyth	
Pre-Lab Questions:			
1.) Define the Law of Superpo	osition:		
2.) Define the Law of Origina	l Horizontality:		
3.) Define the Law of Cross C	utting (and what two geolo	gic events does this apply to?)	
4.) Define the Law of Folding	:		
5) What is an unconformity?	In defining and unconform	nity, evolain how they form	



CROSS SECTION #2:



Cross Section #3



Report Sheet

Sequence #1

Order of Events	Description of Event AND layer(s) influenced
9	
8	
7	
6	
5	
4	
3	
2	
1	

Sequence #2

Order of Events	Description of Event AND layer(s) influenced
12	
11	
10	
9	
8	
7	
6	
5	
4	
3	
2	
1	

Sequence #3

Order of Events	Description of Event AND layer(s) influenced
14	
13	
12	
11	
10	
9	
8	
7	
6	
5	
4	
3	
2	
1	

	Go back into diagrams #1, 2 and 3. Highlight or draw a thick line to show the locations of the unconformities in each of the three cross sections.
-	State one piece of evidence shown in cross section #1 that indicates that rock unit D is older than igneous intrusion C
	State one piece of evidence shown in cross section #3 that indicates that igneous intrusion A is older than rock layer C.
4.) 1	For cross section #2, use the following information to answer the question. a. The cross section is from NYS b. The age of rock layer C is 310 million years old c. The age of rock layer B is 190 million years old
Which ti	me periods are missing from the rock record?
During w	which geologic time period did this unconformity occur?
5.) F	For cross section #3, Rock layer B is 270 million years old. Could this rock be found in NYS? If so, where?
6.) F	Rock layer G in cross section #3 dates to 210 m.y. a. What index fossil could be found in this layer if it was in NYS?

b. The only place one could find these fossils in NYS is located where according to pg. 2 and 3 of the

reference table?

Conclusion Questions: