Earth and Life History

Name:

Faulting and Igneous Activity		Period:
This exercise will help you gain a greater und	derstanding of how layers of rock	can be changed over time.
Step 1—Get the piece of paper that you will	use to make the block model.	
Step 2—Color the layers, using the colors lis bottom of your block.	ted in the coloring key. The key w	vill end up being on the
Step 3—Cut out the block model.		
Step 4—Fold it and glue it together using a g		CoolClips.com
Step 5—Use the completed block to answer of your textbook if you are getting st	tuck.	o use Chapter 8, Section 2
What rock is on the surface of this block?		
The rock on top is called	·	
2. Is this rock found only on the top layer of t	he block?	
3. What did the basalt have to go up through	to get to the surface?	
The basalt went through		
4. The basalt had to be very hot to melt its w	ay up to the surface. Which of the	e 3 types of rock is basalt?
Basalt must be an	rock.	
5. What is it called when magma flows into o p.241.		
When it flows into other rocks, mo	agma is called an	·
6. Faults can cause layers of rock to no longe	er be lined up. What is a fault? Hi	int: reread p.241.
A fault is a	in Earth's crust.	
7. If a fault goes across layers of rock, what age of the layers of rock? Hint: read the F	-	•
If a fault cuts across layers of roo	ck, the fault must be	than the layers.
8. How does the age of the igneous intrusion	(the basalt) compare to the fault?	Hint: look at the block.
The igneous intrusion must be	than the fault, be	cause it crosses the fault.
9. In the space below, number events from a	oldest (1) to most recent (5).	
fault disturbed lavers	sandstone laver formed	granite crust formed

_____ basalt intrusion occurred _____ shale layer formed