Name		

Directions: Look closely at the two pictures below. How are they different? Both landforms resulted from the erosion of earth materials by running water. Discuss with a partner what factors might have caused the differences you observe.

A valley

A canyon

A canyon

Focus Question: What variables affect the erosion of earth materials in a stream table?

Variables we think might affect the erosion of earth materials (e.m.) in a stream table. Explain your thinking.

1	 	
2		
3		
4		
5		

QUESTION : If we cha	ange the stream		<u>amount of water</u> , what he above variables)
will happen to			?
Experimental Set-U	p		
You may select 3 valu changing variable and			
1. Stream Table Eleva Water Quantity – 10			n., 2½, 3 in.
2. Water Quantity Val Elevation – ¼" for a		00 mL, 300 mL, 40	00 mL, 500 mL, 600 mL
Changing Variable:	Trial A	Trial B	Trial C
What you circled above			
<u>Controls</u> : Variables	s that will not b	oe changed /	
		/	
		/	

Prediction: We predict the earth material will move the farthest in Trial
because
Investigation Procedure:
1
2
3
<u> </u>
4
4
5

Results Data:
Stream Table Observations:
Changing Variable:
Trial A: Changing Variable Value
Trial B: Changing Variable Value
Trial C: Changing Variable Value

Results Data:

L	distance the Earth	i materials moved	i (Cili)
	Trial A	Trial B	Trial C
<u> </u>			
Changing Variable			
Distance			
Moved (cm)			
Conclusion: (A claim	n supported by da	ta)	
Conclusion. (71 oldin	ii capported by da	ia)	
The result of the exp	eriment shows		
The result of the exp		Claim	
because			
	Data (measurement/ol	oservation)	

Discussion Questions: 1. What effect did the water amount have on erosion? Why?
2. What effect did the steeper slope have on erosion? Why?
3. How do erosion factors affect landforms? Refer back to the canyon and valley landform pictures. Based upon your investigation, predict which of these 2 landforms would most likely result.
a. A stream running down a small, low-sloped hill over time will likely cause a
Explain your reasoning.
b. A stream running down a tall, steep mountain overtime will likely cause a Explain your reasoning.