Hypothesis (Make a prediction.)

How will varying the stream gradient change the water velocity?	
What effect will the gradient have on the river shape over time?	
Slide 6	
Experiment Procedure: (Make a plan.) Number your steps, and use complete sentences!	



Erosion & Deposition by Rivers Virtual Lab Slide 7

Test the gradient using the river model. Record your observations in this table, not on the computer version. You may need to <u>click</u> on the Water velocity gauge to see the speed. *When you finish, type one letter in each box of the online table so it will allow you to continue to slide 8.*

Stream Gradient	Water Velocity (m/s)	Drawing of Final Channel Shape
Gentle		
Moderate		
Steep		

Slide 8

COLICIOSIONS.	
What effect did the stream gradient have on water velocity?	
· 	
What effect did the stream gradient have on the channel shape over time? _	

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How does your conclusion compare to how scientists explain this?
PART 2!
Slides 10 -12
Observations:
What effect did the amount of vegetation have on stream bank erosion?
What effect did the amount of vegetation have on the channel shape over time?

Conclusions:

How does increased vegetation along the riverbanks affect the development of the river channel? (Circle your answer.)

- Vegetation reduces the rate at which the river channel gets curvier.
- Vegetation has no effect at all.
- Vegetation increases the rate at which the river channel gets wider.

Additional information:

Drop structures and erosion: (Circle <u>all</u> of the true statements.)

- A drop structure reduces the slope of a river channel.
- A drop structure is used to reduce the erosion of the channel.
- Erosion is greater in a river with drop structures.
- Water moves more quickly through a river with drop structures.