

Erosion and Slope, Page 1



Predict

If you pour water down the slope of the board, at which slope will the water probably run fastest?

If there is sand on the board, at which slope will the most erosion happen?

Experiment

Cover the board with dry sand. Make the sand 1 centimeter deep. Raise one end of the board to the height for the first slope. Time how long it takes one cup of water to flow down the slope. Use fresh, dry sand and a full cup for each slope in the chart.

Slope (height of board end)	Time of Runoff (seconds)	Average of All Trials in the Class (seconds)
3 cm		
6 cm		
9 cm		
20 cm		

Erosion and Slope, Page 2



Analyze

❶ Which slope had the fastest runoff?

❷ Erosion is when water removes soil or sand from a slope. Which slope had the most erosion?

❸ What conclusion can you make about the speed of water and erosion?

❹ Deposition is when water drops the sediment it was carrying. Where was the sand deposited?

❺ What happened to the speed of the water there?

❻ What conclusion can you make about water speed and deposition?
