

DATA SHEET : FLOWING STREAMS

Name _____

Date _____

A. Procedure - Measuring Flow Rate at the Surface

Trial 1 time: _____ sec.	Calculate flow rate (distance/time):
Trial 2 time: _____ sec.	Trial 1 flow rate: _____ m/sec
Trial 3 time: _____ sec.	Trial 2 flow rate: _____ m/sec
	Trial 3 flow rate: _____ m/sec

Additional trials:

Average flow rate: _____ m/sec

B. Procedure - Calibrating the Pinwheel

Average time for ball to float 10 meters _____ (use time data from part A)

Number of pinwheel revolutions in this amount of time _____

Now calculate the stream flow velocity (meters/second) based on the number of pinwheel revolutions.

10 meters ball traveled

 _____ seconds ball traveled = _____ meters/second

_____ pinwheel revolutions

 _____ seconds ball traveled = _____ pinwheel revolutions/second

_____ pinwheel revolutions/second = _____ meters/second stream flow

C. Procedure - Measuring Width of Stream

Width of stream: _____ m

D. Procedure - Measure the Stage of the Stream

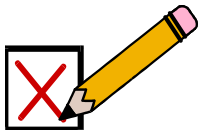
E. Procedure - Determining Flow Rate Across the Stream Width

F. Procedure - Collection of Sediments Across the Stream Width

	Data Collection Point 1	Data Collection Point 2	Data Collection Point 3	Data Collection Point 4	Data Collection Point 5	Data Collection Point 6
Distance from shore (m)						
Stream Depth (m)						
Flow Rate (m/s) <i>(do calculations on separate sheet)</i>						
Sediment Sample Description <i>(can include average size, size range, consistency, illustrations)</i>						

G. Procedure - Comparison of Flow Rate at Various Stream Depths

Stream Flow Velocity for one location	Surface	
	Mid-Depth	
	Bottom	



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H. Procedure - Create a Stream Depth Profile

