Stream Flow

Measuring, Recording, and Calcuating

Researcher Names: _____

Date and Time: _____

Reach Description: _____

_____

_____

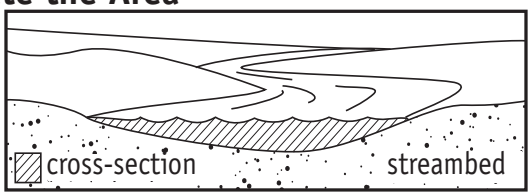
Measuring Stream Velocity

Measure the length of time for the ball to travel 30 feet. Repeat this measurement and use the table at right to record, calculate, and average the results.

Result: _____ft/s
(average depth)

Velocity Work Area			
tries	distance	time	velocity
1	30 ft	÷ s =	ft/s
2	30 ft	÷ s =	ft/s
3	30 ft	÷ s =	ft/s
4	30 ft	÷ s =	ft/s
		total =	ft/s
			÷ 4
		average velocity	ft/s

Calculate the Area



Choose a cross-section of creek in the middle of the 30-foot section of creek and calculate the cross-section area.

Result: _____ft x _____ft = _____ft^2
(width) (average depth) (area)

Average Depth Work Area			
	depth	convert to feet	
1	in	÷ 12 =	ft
2	in	÷ 12 =	ft
3	in	÷ 12 =	ft
		total=	ft
			÷ 3
		average depth	ft

Calculate Flow

Multiply velocity times area to calculate flow.

_____ft/s x _____ft^2 = _____cfs
(velocity) (area) (flow)