

## Calculating flow rate and discharge

Length (m)	Width (m)		 Cross-Sectional Area (m <sub>2</sub> )
	K =	·	
2. Calculate the Si	tream's Cross-Section	onal Area	
<i>Depth</i> (m)			
Length (m)	Width (ı	m)	
1. Measure the St	ream. Record the le	ength, depth	, and width in meters
Current and Recen	t Weather		
LOCATION			
Location			
Stream Name		Date	Time
Your Name(s)			

3	Float the	Duck! Record	the duck's trave	l time in th	e table below
J.	I IVUL LIIC	Duck. Necolu	tile duck 3 tildve		ic tubic below

Trial	Elapsed Time (s)
1	
2	
3	
AVERAGE TIME	
4. To calculate the stream v	velocity, divide the distance the duck traveled (stream
section length) by the avera	age time.
section length) by the avera	-
section length) by the average ÷  Length (m)	Average Travel Time (s) Flow Rate (m/s)  e, multiply the flow rate by the cross-sectional area