

3. Float the Duck! Record the duck's travel time in the table below

Trial	Elapsed Time (s)
1	
2	
3	
AVERAGE TIME	

4. To calculate the stream velocity, divide the distance the duck traveled (stream section length) by the average time.

$$\frac{\text{Length (m)}}{\text{Average Travel Time (s)}} = \text{Flow Rate (m/s)}$$

5. To calculate the discharge, multiply the flow rate by the cross-sectional area

$$\text{Flow Rate (m/s)} \times \text{Cross-Sectional Area (m}^2\text{)} = \text{Stream Discharge (m}^3\text{/s)}$$