Pembrokeshire Outdoor Schools

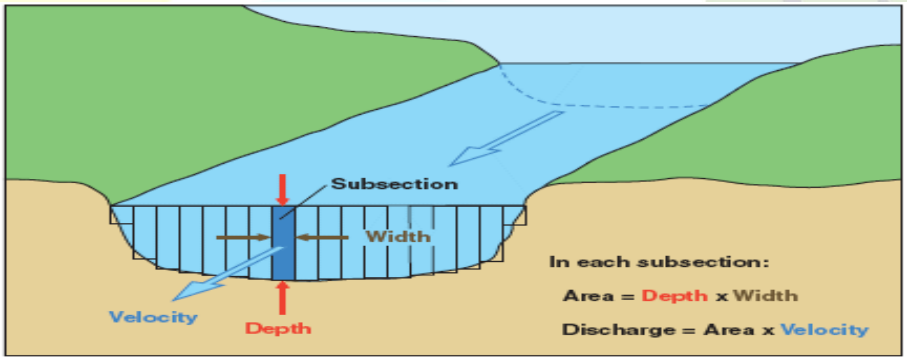
DIGITAL COMPETENCY OUTDOORS

Location: Carew Cheriton **Learning Objective: To measure the area of a cross section of a stream**	**NC Year Group: 5** **Lesson Number: 2**
Strand: Data and Computational Thinking **Element: explore and analyse data sets, highlighting relationships within them. Yr 6: construct and interrogate data sets or support an investigation**	
Child Friendly Heading: Area of a stream.	
Success Criteria: to measure the area of a cross section of a stream.	

What to do:

- **Calculate the area of a cross section of the stream**

- **Measure the width of the stream**
- **Break it up into equal intervals (10cm) Measure the depth every 10cm.**
- **Record on Numbers**
- **Find the area of each 10cm section by measuring the depth.**
- **Combine each section to calculate the cross section of the stream.**
- **Measure a cross section and calculate the average stream depth.**



Current-meter discharge measurements are made by determining the discharge in each subsection of a channel cross section and summing the subsection discharges to obtain a total discharge.

- **Use Numbers on the Ipad to input the depths and then the width and calculate the area**

Area = depth x width

Resources:
A tape measure
A metre ruler
A recording chart
An ipad with Numbers