

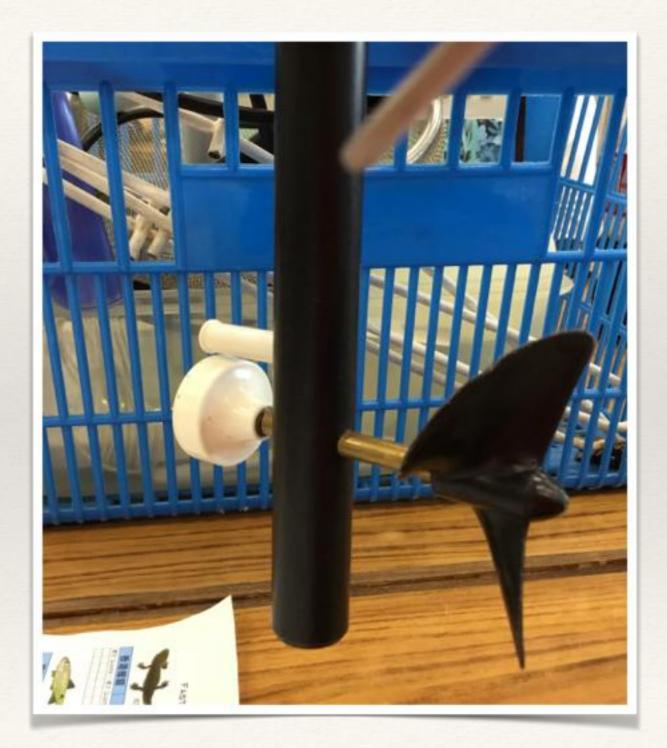
Yan Oi Tong Tin Ka Ping Secondary School

Correlation between the velocity of water current & density of Large Stream Snail, in the freshwater stream.

Cynthia Chan Kevin Chan Desmond Chan Joe Chung

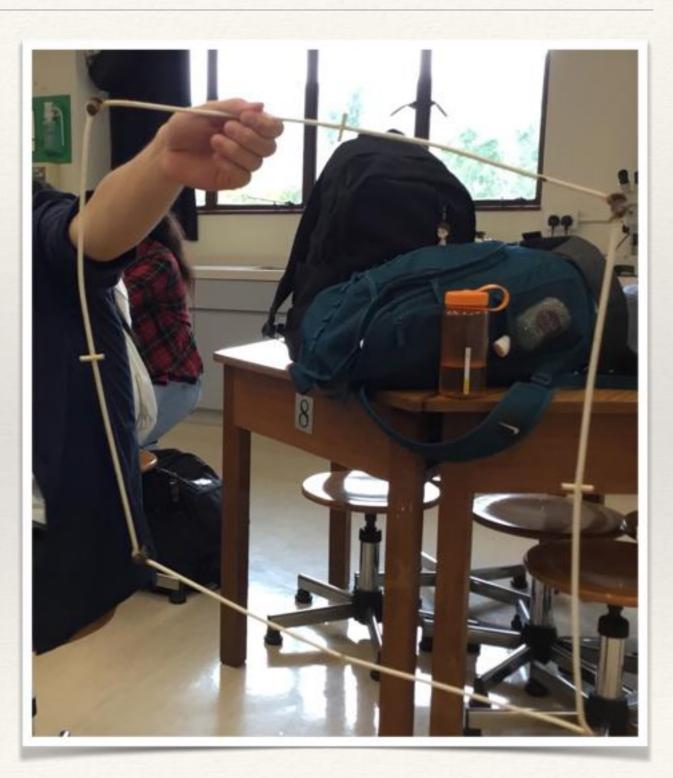
Independent variable

- * Velocity of water current
- * (m/s)
- * Tool : water flow meter
- * Measurement of 3 sites :
- * 0m/s; 0.3m/s; 0.98m/s



Dependent variable

- * Density of Large Stream Snail
- * Tool : Quadrat 0.5x0.5m



Controlled variables

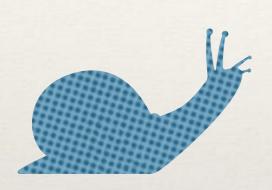
- Nature of substrate
- * Depth of waterway
- Temperature ; digital thermometer
- * Light intensity ; light meter
- * pH value ; pH meter

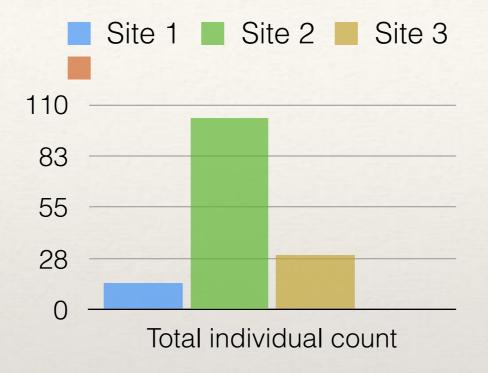




	Site 1 (0m/s)	Site 2 (0.3m/s)	Site 3 (0.98m/s)
Large Stream Snail (≤10mm)	11 (79%)	99 (96%)	22 (76%)
Large Stream Snail (>10mm)	3 (21%)	4 (4%)	7(24%)
Total individual count	14	103	29

Graph of no. of Large Stream Snail











Large Stream Snail

- * Long-conical-shaped
- Black and brown in colour
- Has large muscular foot
- Live in dark and clean water area
- Has hard shell





- * There is a positive relationship between low velocity of water current and the density of Large Stream Snail,
- * and a negative relationship between high velocity of water current and the density of Large Stream Snail

Further analysis

- * Possible reasons :
- Slow water current : Predation
 +Competition
- ∗ Fast water current : Food →+wash away(<10mm)



