



Term 3, Lesson 5

Abundance & Species Richness

Learning Objectives:

1. Calculate the abundance and species richness of macroinvertebrates sampled from the wetland;
2. Draw a water bug to scale.



Abundance

refers to the number of individuals per species present.



Species richness

refers to the number of different organisms present.



Classroom Activities

Activity 1 -

Calculate the abundance and species richness of macroinvertebrates sampled from the wetland (all sites combined).



Abundance - Calculate the total number of individuals per species. You will have an abundance value for each species.

Species richness - Calculate the number of different species sampled from the wetland.

Classroom Activities

Activity 2 -

Determine the health of the water at each site, using the equation below.



Equation from the Waterbug Blitz Education Resource

**Add up the SIGNAL ratings of the
different waterbugs you found**

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Number of different waterbugs

Classroom Activities

Activity 3 -

- View the subsampled macroinvertebrates collected from the wetland.
- View the macroinvertebrates using a microscope or the camera on your mobile phone or iPad.
- Draw one of the sampled macroinvertebrates to scale.

