Macroinvertebrates *Handout*

Students learn how "bugs" can help us judge the health of our lakes and streams.

Student Data Sheet

Student Hypothesis and Rationale

If the presence of intolerant macroinvertebrate species is an indicator of good water quality, then I would expect to find (circle one: more / less) intolerant macroinvertebrates at the sampling site:

_____ because _____

(lake or stream name)

_____

Field Observations/Measurements/Data

Habitat Description:					
Group 1 Taxa (Intolerant)	**Number**	**Group 2 Taxa (Somewhat Tolerant)**	**Number**	**Group 3 Taxa (Very Tolerant)**	**Number**
Mayfly		Shrimp		Aquatic worm	
Stonefly		Scud		Midge	
Caddisfly		Water Mite		Leech	
Riffle Beetle		Crane Fly			
Snail		Crayfish			
		Clam			
		Sowbug			
		Water Penny Beetle			
		Damselfly			
		Dragonfly			
		Hellgramite			
Number of Different Taxa for Group 1:		**Number of Different Taxa for Group 2:**		**Number of Different Taxa for Group 3:**	
Multiply by:	3	Multiply by:	2	Multiply by:	1
Index Value:		**Index Value:**		**Index Value:**	
Total Number of Taxa (sum of number of taxa in each group):					
Cumulative Index Value (sum of index values for each group):					
Water Quality Assessment: (Check box corresponding to Cumulative Index Value)					
☐ Excellent (>22)			☐ Good (17-22)		
☐ Fair (11-16)			☐ Poor (<11)		