## Quiz:

What are the six groups of macroinvertebrates we looked at in class last week?

Which of those groups are classified as Orders and which is a Genus?

Due at 1:37! 50

Field Trip Thus 1/15 All day! 2. 1. Check in with 2nd, 4th, 6th, 8th teachers 2. Bring permission slip (signed) by Wed 1/14 3. Food/water for all day 4. Appropriate clothes -Water & mud safe footwear · Warm jackets hats · rain coats, pants · umbrella

Aquatic macroinvertebrates are <u>indicators</u> of water quality

An indicator is something that you can measure or detect that allows you to infer information about something else.

Beacuse M.I.'s are immersed in the water, they are really sensitive to changes in water quality parameters. Different groups of macroinvertebrates
have different preferences for water quality...

So we can look at which species are in

Tackson Creek and the abundant they are

and use that to estimate the water quality of

Tackson Creek.

WE ARE LOOKING AT THE SUITABILITY OF JACKSON CREEKS WATER TO SUPPORT WILDLIFE- TROUT SALMON

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May flies
    Short tails, clear stapes. 3 Mayfly
Small, fast-moving 6 Michness = 3
    Small, fast -moving 6
    Large may fly with buggy eyes: 1
Stoneflies
    Small, with clear heads 3 stonefly ninness = 2
    Large, with big claws: 2
Caddisflies
     Rock house: 1 caddisfly = 2
Grass house: 1 richness = 2
# of midges (red the fly lunae)
                                     % midges:
% dominance:
    \frac{6+6+3}{23} = \frac{15}{23} \approx 66\%
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Table 12-4. Family level metrics and scoring criteria.

	Scoring Criteria					
M etric	Raw Value	5	3	1	Score (Circle)	
Taxa Richness		>18	10-18	<10	5 3(1)	
Mayfly Richnes	S	>4	2-4	<2	5(3)1	
Stonefly Richne	ess	>3 >4 <15	1-3 2-4 15-30	0 <2 >30	531	
Caddisfly Richn	less				5 <b>③</b> 1 5 <b>②</b> 1	
% Chironomida	e					
% Dominance		<30	30-50	>50	5 3 1	
(Top 3 Taxa)						
Score Range	Stream Condition				(14)	
>23	No impairment: passes Level 2 assessment. Indicates good diversity of invertebrates and stream conditions with little disturbance. Further sampling will help confirm the site's condition as unimpaired.					
7-23	Moderate Impairment: evidence of some impairment exists. Requires further study and more detailed analysis.					
:17	Severe Impairment: Further study may b					