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 7:47!

Field Trip: Thurs. 1/15 - "all day" 8:15-2:30 Check w/4th,6th, 8th teachers · Bring food & water Bring appropriate clothing. Doots/shoes ok for mud - Warm jackets/pants - Paincont Irain pants / umbrella Permission slips! TOMORROW (Wed. 1/14)

Extra credit w/make-up assignment

2

Aquatic macroinvertebrates are indicators of water quality.

Indicators are things you can measure/
count that give you information about
something else
We can count the different types
of M.I.'s and use that to give us
into about Tackson Creek's water quality

We need to categorize all the organisms we see:

Mayfly richness=2

True fly

huge, with green stripes

True fly

red colored ones %= 3

The fly

other

11.5% Beetles Stonefly richness=2 huge hooky claws I gilly legs dominance % Snails 6+4+4=14 Coddis richness=2 stone shell grass shell

Table 12-4. Family level metrics and scoring criteria.

	Scoring Criteria				
	Raw				Score
M etric	Value	5	3	1	(Circle)
Taxa Richness 📗 💍		>18	10-18	<10	531
Mayily Richness 🔍		>4	2-4	<2	531
Stonefly Richness 🗎		>3	1-3	0	531
Caddisfly Richness 🔪		>4	2-4	<2	531
% Chironomidae 🥂 💆		$\langle 15 \rangle$	15-30	>30	3 1
% Dominance 54		< 30	30-50	>50	5 3(1)
(Top 3 Taxa)				_	18

	Score Range	Stream Condition
18	>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.
	17-23	Moderate Impairment: evidence of some impairment exists. Requires further study and more detailed analysis.
	<17	Severe Impairment: fails Level 2 assessment. Evidence of stream disturbance exists. Further study may be warranted to confirm level of impairment and potential causes.

This analysis tells us only if the water quality is suitable for trout, salmon, and other similar organisms!