

How Can We Help the Water Bugs?



Please conduct this pre-survey: <https://forms.gle/YP8Zqw9FC919s3dq8>

Slides Questions

1. Slide 6. Describe what the two graphs represent.

2. How does the diversity of aquatic insects compare in the two graphs?

3. The diversity of aquatic insects is used as an “indicator” for watershed health.
Why do you think that is a stronger indicator than just taking a water sample?

4. Slide 7. Name at least 3 ways excess sediments in the water can affect the river.

5. Slide 8. Tell at least 2 ways excess sediments get in the river.

6. Slide 9. On the TSS graphs for Fleming and Miller creeks, what do the green trend lines show for each creek?

7. Slide 10. How is stream “flashiness” connected to TSS?

8. Slide 12. Use the Claim, Evidence, Reasoning graphic organizer to consider the question “Which Creek is Healthier in Terms of Turbidity?”
Or answer the questions here:
 - A. Which Creek is Healthier in Terms of Turbidity?

 - B. Identify two pieces of evidence from the data provided that support the claim.

 - C. Write two bullet points describing the science that explains why the evidence supports the claim.





9. Slide 13. Tell at least 2 ways people can keep sediments out of the river.
10. Slide 14. Which of the listed animals are most able to survive in low oxygen waters?
11. Slide 16. Describe the trend shown in this graph.
12. Slide 16. How do you think a decrease in dissolved oxygen might affect benthic macroinvertebrates?
13. Slide 15, 17. List 2 factors that can influence dissolved oxygen in streams and rivers and explain how one of them works.
14. Slide 18, 19. Use the data from the graphs to fill out the Claim/Evidence/Reasoning graphic organizer.
 - A. Which Creek is Healthier in Terms of Dissolved Oxygen?
 - B. Identify two pieces of evidence from the data provided that support the claim.
 - C. Write three bullet points describing the science that explains why the evidence supports the claim.
15. Slide 21 Choose one of the suggested actions on Slide 21 and tell how it would work to improve DO in a stream.
16. Slide 22 Use the data from the graphs to fill out the Claim/Evidence/Reasoning graphic organizer.
 - A. Which Creek is Healthier in Terms of Conductivity?
 - B. Identify two pieces of evidence from the data provided that support the claim.
 - C. Write three bullet points describing the science that explains why the evidence supports the claim.



17. Slide 25

A. Which of the 3 parameters (TSS, DO, Conductivity) is likely impacting the river bugs in these 2 creeksheds?



B. Identify two pieces of evidence from the data provided that support the claim.

C. Write two bullet points describing the science that explains why the evidence supports the claim.

18. Slides 26 through 30

Choose one action you could actually take.

Tell where and when you could do it.

Tell how that could impact the watershed.

Please conduct this post-survey: <https://forms.gle/vHELUUJZFJfLcT56>

