



# Assessment Rubric

## Module 3: Creek Critters

**Question 1:** Which of these pictures is of a riparian ecosystem?

Rubric Score	Description
3	Student chooses the <b>correct answer</b> (a).
2	
1	
0	Student chooses the <b>incorrect answer OR</b> student <b>did not answer</b> the question.

**Question 2:** Select the correct order and flow of energy in this riparian food chain.

Rubric Score	Description
3	Student chooses the <b>correct answer</b> (c).
2	
1	
0	Student chooses the <b>incorrect answer OR</b> student <b>did not answer</b> the question.



**Question 3:** Adaptations are body parts or behaviors that help living things survive. Look at the picture below. What is one adaptation of the mayfly? Explain how it helps the mayfly survive.

Rubric Score	Description
3	Student answer demonstrates a <b>thorough understanding</b> of macroinvertebrate adaptations (e.g., student identifies one adaptation and logically explains how it helps the mayfly survive).
2	Student answer demonstrates a <b>basic understanding</b> of macroinvertebrate adaptations (e.g., student identifies one adaptation and provides a mostly logical explanation for how it helps the mayfly survive).
1	Student answer demonstrates a <b>minimal understanding</b> of macroinvertebrate adaptations (e.g., student identifies one adaptation but does not provide an explanation for how it helps the mayfly survive).
0	Student answer demonstrates <b>no understanding</b> of macroinvertebrate adaptations <b>OR</b> student <b>did not answer</b> the question.

**Question 4:** In the image below, which of the following macroinvertebrates might you expect to find in the creek?

Rubric Score	Description
3	Student chooses the <b>correct answer (leeches)</b> .
2	
1	
0	Student chooses the <b>incorrect answer OR</b> student <b>did not answer</b> the question.



**Question 5:** Do you think Crooked Creek is a healthy waterway? Why or why not? Use the information Maddy collected to explain your answer.

Rubric Score	Description
3	Student answer demonstrates <b>thorough understanding</b> (e.g., answers that the waterway is NOT healthy and provides at least two supporting reasons, e.g., the water temperature is higher than 70 degrees, the dissolved oxygen level is low, and/or no indicator species--mayflies, stoneflies, and caddisflies--are present.
2	Student answer demonstrates <b>basic understanding</b> (e.g., answers that the waterway is NOT healthy and provides at least one supporting reason, e.g., the water temperature is higher than 70 degrees, the dissolved oxygen level is low, or no indicator species--mayflies, stoneflies, and caddisflies--are present.
1	Student answer demonstrates <b>minimal understanding</b> (e.g., answers that the waterway is NOT healthy but does not provide any supporting evidence.
0	Student answer demonstrates <b>no understanding</b> (e.g., answers that the waterway IS healthy) <b>OR</b> student <b>did not answer</b> the question.

**Question 6:** What does finding many types of mayflies, stoneflies, and caddisflies indicate about the health of a waterway?

Rubric Score	Description
3	Student chooses the <b>correct answer</b> ("The waterway is healthy").
2	
1	
0	Student chooses the <b>incorrect answer OR</b> student <b>did not answer</b> the question.