

Oklahoma Envirothon
Aquatic Test
Study Guide

1. Students should be able to draw and label parts of a creek or stream and its immediate surroundings.
2. Students should be able to identify and correctly use equipment for collecting stream data. (Note: An excellent source for this information is bluethumbok.com. You may also want to consult this website for other points in this Study Guide.)
3. Students should understand the role of Dissolved Oxygen and %Oxygen Saturation in a creek or stream.
4. Students should have a working knowledge of the following group of macroinvertebrates common to Oklahoma creeks and streams:

Alderfly	Gilled Snail
Blackfly	Isopod
Bloodworm Midge	Leech
Clam	Lung (Pouch) Snail
Caddisfly	Mayfly
Crane fly	Non-Red Midge
Dobsonfly	Riffle Beetle
Damselfly	Stonefly
Dragonfly	Water Penny

An understanding of the life cycle, functional feeding group, taxonomic order, sensitivity to pollution, and natural habitat would be significant.

5. Students should know how to use a dichotomous key.
6. Students should understand Stream Order.
7. Students should understand how a creek or stream is affected by the condition of its embankments.
8. Students should understand the role of erosion and deposition.