



CSI: Creek Scene Investigators is a lesson that allows students to take on the role of citizen scientists as they develop the knowledge and skills necessary to evaluate the health of tributaries within the Chesapeake Bay Watershed.

 **CSI: Creek Scene Investigators** integrates the technology of National Geographic's FieldScope (chesapeake.fieldscope.org/) to explore existing data on the watershed as well as record the new data that students help collect.

 Following an introduction (or refresher) to macroinvertebrates, our **CSIs** are divided into teams and assigned a portion of the North Branch of Bennett Creek to investigate.

Information from each **CSI** team is shared and Mountainside educators help students to analyze and synthesize their findings through data collection tools, graphs, and calculations to assess the current health of Bennett Creek.

In addition, to supporting students' environmental literacy and understanding of STEM concepts, this lesson supports the following Next Gen objectives & curriculum standards:

- How & why organisms are able to survive in particular environments.
- How human behaviors and decisions influence the environment.
- Diversity of organisms and their interactions with each other and their environment.
- Evidence & Reasoning and Communicating Scientific Information.

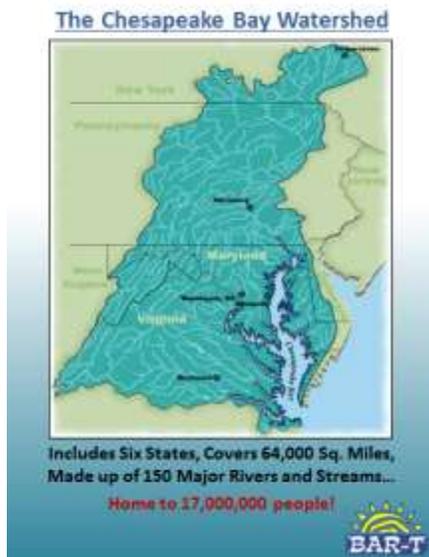
The cost of **CSI: Creek Scene Investigators** is \$10 per student (transportation not included). The lesson is facilitated at Bar-T Mountainside in Urbana, MD.

Contact us to learn more about : **Creek Scene Investigators**

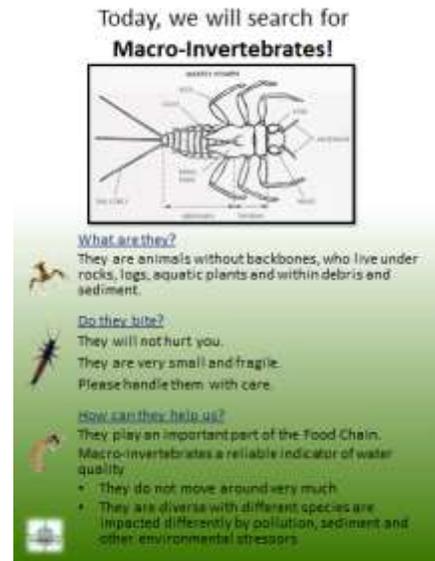
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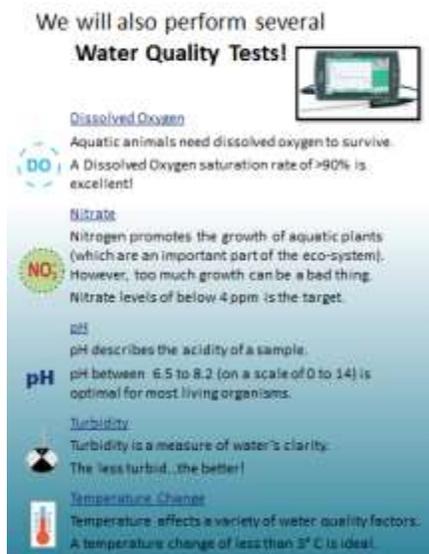
A few screenshots of our CSI PowerPoint:



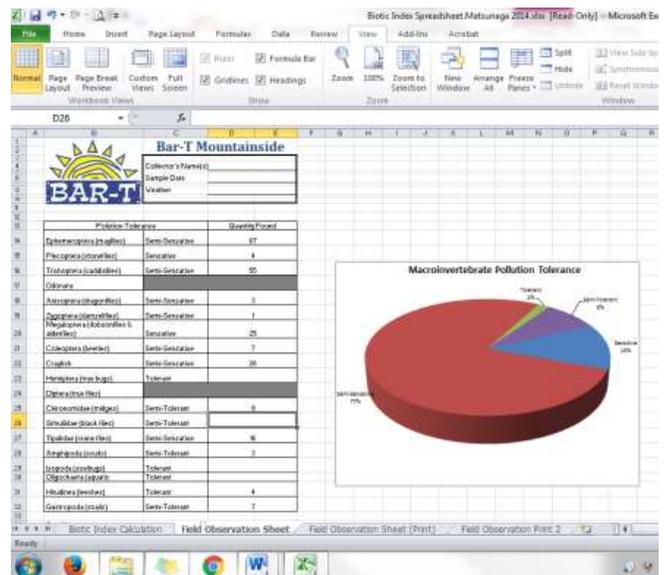
We use a variety of tools and models to introduce the Chesapeake Bay Watershed and the scope of this unique ecosystem.



We then discuss Macro-Invertebrates and how they help scientists determine the health of creeks and streams in our watershed.



We also use LabQuest 2 data collection systems to assess pH, dissolved oxygen, turbidity, and other measures of water quality.



We gather the data collected by the students and present the information through a variety of models to help facilitate a discussion on what conclusions can be drawn from the work conducted by our student scientists.