

CBF Education and State Standards

A day on a boat program with CBF gives students a chance to practice college & career ready skills in a real world setting



Maryland College & Career Ready Standards

Field activities on a boat program address these standards:

RST 9-10-1	Use CBF's State of the Bay Report Card in conjunction with water quality testing
RST.9-10.3 & 11-12.3 Math.S-ID.1, 2,6; IC.6	Water quality testing with SONDES or colorimetric equipment*
RST.9-10.4 & 11-12.4	Map and chart activities
SL1	Map and chart activities; water quality and land use discussions*
SL4 Math.S-ID.1, 2,6	Present water quality results to the group*
Govt CLG 1.1 B 1.1.4	Action project discussions; fisheries and nutrient discussions
Environmental Literacy 4.b, c, d, e; 5.a, b; 6.a, b, c	Oyster and crab fisheries activities*

*This activity can meet more standards if the class uses data collected during the field experience for follow-up classroom lessons that are available at www.cbf.org/activities



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See how CBF Boat Programs connect with state standards and water quality issues



Students' average mastery of content increased from 21% before the program to 62% after the program. (Live It Learn It)

“[after the field experience] My students complete a full lab report on the Water Quality Index set forth by the National Sanitation Foundation.

The trip on the Potomac is the central focus of our unit on Water Quality. There is no better way that I can cover the topics then to have first-hand experience in testing at different sites on the Potomac and Anacostia rivers.”
(Walt Whitman High School teacher)



CBF partnered with [Spark101](#) to offer virtual lessons about how STEM material such as issue investigation, water quality monitoring, and data analysis can help students determine what action project will benefit their local community. Teachers can offer these video lessons as pre- or post-field experience activities for students. They demonstrate how CBF's field programs address the STEM material that teachers are required to cover in their classes across the watershed.

- [Land Use and Biodiversity](#)
- [Species Diversity and River Quality](#)
- [What Does Water Testing Tell Us About Water Quality?](#)



As we look ahead, CBF is always working to stay on top of education topics that our teacher audience deals with on an everyday basis. Here is a quote from a teacher on a CBF professional development course:

“With Next Generation standards and the STEM initiatives both coming to the forefront of education, I felt that the Chesapeake Bay Foundation has a good grasp of where science education is headed.”



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