

Virtual Classroom STEM Workshops



GBF educators will join you and your class for these 30 minute live virtual workshops designed to engage your students with a variety of Galveston Bay related topics. Workshops are differentiated per age group, please let us know if your class is more advanced so we can prepare accordingly.

TEKS alignment can be found on the back of this document.

**Workshops include an optional corresponding worksheet or extension lesson to further student learning.*

****Virtual workshops are FREE! Educators will be required to complete a post-program survey.***

Workshop Details

Topic	Grade	Activities
Microscopic Exploration	Grades 1-5	Get up close and personal with all sorts of backyard items in this unique workshop. Educators will use specialty microscopes to show students what insects, dirt, rocks, and plants look like on the microscopic level. Students will compare and contrast what they observe.
Bay Animals	Grades 1-12	Join us to learn more about the habitats around the Bay and why they are important. We will also encounter live animals our educators just fished out of the bay and discuss their adaptations to our estuarine bay habitat. Students will then create a food web or chain based on the animals they saw. <i>*If there is inclement weather, your session may be rescheduled, or the topic may need to change.</i>
Galveston Bay Dolphins	Grades 2-12	Did you know Galveston Bay has its very own dolphins? In this workshop we will learn more about characteristics of dolphins, GBF & UHCL's Dolphin Research Program, and why it is important that we learn more about bay dolphins.
All About Oysters	Grades 5-12	What are oysters and why are they important? We will discuss oyster biology and ecology in this workshop, including watching educators dissect an oyster using a specialty microscope to get an even closer look at the anatomy.
Nature Journaling	Grades 5-12	Do you want to build your students' observation and writing skills? In this workshop we will teach students how to keep a nature journal, go over the skills that are essential to the process, and give students time to write while looking at the bay. Teachers will receive a variety of writing prompts to continue the nature journaling process in their classes.
Human Impacts on Watersheds	Grades 5-12	Need to teach about pollution and human impacts on the environment? Look no further. Students will play a little game to determine their own impact on the environment and learn about the Galveston Bay Watershed, its sub-watersheds, and why how we treat them is important. A short viewing of bay animals can be included if the weather is good.
Environmental Leadership and Problem Solving	Grades 5-12	<i>*This 2-part program requires 2 virtual workshops with GBF educators. After registration, GBF will contact you to schedule the 2nd workshop.</i> During these workshops, students will learn how to be a leader for the environment, discuss issues facing the bay by looking at the Galveston Bay Report Card, and begin to work in groups to solve a specific problem given to them by GBF educators. Student groups will then work together for an extended amount of time (1-3 weeks as teacher chooses) to create a final project. When projects are completed, they will come back together virtually with GBF educators to present their solutions and discuss how they can take action in the community.

To register: <https://www.emailmeform.com/builder/form/47bedBPexkar5D>

Workshops are 30 minutes each unless by specific request and we can reserve multiple workshops each day if you have multiple classes.

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Virtual STEM Workshop Science TEKS

Some workshops may align with additional TEKS (such as English or Social Studies). Please reach out with any questions.

Program	2nd	3rd	4th	5th	6th	7th	8th	Biology	Aquatic Science	Environ. Systems
Microscopic Exploration	1A; 2CDE; 4A; 9BC;10AB	1A; 2CF; 4AB; 9A; 10A	1A; 2BDF; 4AB; 9AB; 10A	1A; 2CF; 4AB; 9A; 10A						
Bay Animals	1A; 2A; 3C; 7B; 9AC; 10AC	1A; 3C. 4AB; 9ABC	1A; 3C; 4AB; 10A	1A; 3C; 4AB; 9ABC; 10A	1A; 2C; 4A; 12CDEF	1A; 2C; 4A; 10AB; 11AB; 12A	1A; 2C; 4AB; 11AB	1A; 2FG; 8BC; 12ABC	1AB; 2FG; 5C; 9C; 10B; 11AB	1AB; 2EFG; 4BFG; 5E; 8AC; 9EF
Galveston Bay Dolphins	1A; 2A; 3C; 7B; 9AC; 10AC	1A; 3C. 4AB; 9ABC	1A; 3C; 4AB; 10A	1A; 3C; 4AB; 9ABC; 10A	1A; 2C; 4A; 12CDEF	1A; 2C; 4A; 10AB; 11AB; 12A	1A; 2C; 4AB; 11AB	1A; 2FG; 8BC; 12ABC	1AB; 2FG; 5C; 9C; 10B; 11AB	1AB; 2EFG; 4BFG; 5E; 8AC; 9EF
All About Oysters				1A; 3C; 4AB; 9ABC; 10A	1A; 4A; 12E	1AB; 4A; 10AB	1A; 4AB; 11ABC	1A; 2FG; 8BC; 12ABC	1AB; 2FG; 5C; 9C; 10B; 11AB;	1AB; 2EFG; 4BFG; 5E; 8AC; 9EF
Nature Journaling				1A; 2CF; 4A; 9A	1A; 2CE; 4A; 12EF	1A; 2ACE; 4A; 10AB	1A; 2ACE; 4A; 11A	1A; 2FGH; 12AB	1A; 2FGHJ; 3E; 4A; 9BC;	1A; 2FGIK; 3E; 4BD
Environmental Leadership				5C; 9C	3AD; 4A	2AE, 3A, 4A, 8C	2AE, 3A, 4A, 11ABC	2GH, 3ABCD, 12E	2GH, 3ABCDE, 12E	2GHIK, 3ABCDE, 4GH, 5BF, 9ABDEG

Email Cindy Wilems, Director of Education, if you have any questions: cwilems@galvbay.org