

Virtual Classroom STEM Workshops



GBF educators will join you and your class for these 30-45 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.

**GBF uses the Zoom platform and will send the appropriate link to teachers after registration. If you are unable to use Zoom with your class due to district constraints, please contact Cindy Wilems at cwilems@galvbay.org to discuss alternative options.*

- *Workshops include an optional corresponding worksheet or extension lesson to further student learning.*
- *Virtual workshops are free this school year. Educators will be required to complete a post-program survey.*

Workshop Details

| Topic | Grade | Activities |
|--|-------------|--|
| Microscopic Exploration | Grades 2-5 | 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 2-12 | 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. |
| 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's 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. |
| 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. Weekly workshop schedule is as follows:

| TUESDAY | WEDNESDAY | THURSDAY | FRIDAY |
|--|--|--|--|
| <ul style="list-style-type: none"> • Bay Animals • Nature Journaling • Galveston Bay Dolphins | <ul style="list-style-type: none"> • All About Oysters • Environmental Leadership • Microscopic Exploration | <ul style="list-style-type: none"> • All About Oysters • Environmental Leadership • Microscopic Exploration | <ul style="list-style-type: none"> • Bay Animals • Nature Journaling • Galveston Bay Dolphins |

Virtual Classroom STEM Workshops



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 |