



Etowah GYSTC S.T.E.M. Flier 2022-23

As a member of Etowah GYSTC, there are many programs tailored to supplement your K-8 programs in the areas of Science, Technology, Engineering, and Math (STEM). This flyer highlights some of the opportunities available to you and your students. Most are provided as part of your GYSTC membership but there are some additional STEM related programs listed with additional fees. If you have something that you would like Etowah GYSTC to provide or facilitate and do not see it, contact us and we will work with you to create a program that provides the supplemental support you need and desire. We are here for you.

Use this QR code to access the Etowah GYSTC website which gives important information about services that are provided.



FACE-TO-FACE SERVICES

FAMILY STEM NIGHT ACTIVITIES

(free with membership)

Using a cafeteria approach, teachers will select the STEM activities that address the Georgia Standards of Excellence that they feel will serve their needs. The STEM activities are hands-on and can be coordinated with the school's curriculum map. A pre-event training will take place where teachers will discuss and decide the activities they need and want. Also, at the pre-event training a materials lists will be provided for the school. During the evening of the event, the GYSTC Coordinator will be present to facilitate the activities, answer questions, and solve any technical issues that arise. These events are very popular and go nicely with PTO or PTA meetings and are a good supplement to Title I meetings, as well.

For more information about Family STEM Nights and scheduling, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.



ETOWAH GYSTC EQUIPMENT RESOURCE CENTER

(free with membership)



For many schools, specialized equipment is not very affordable or easy to store. Your Etowah GYSTC may be your answer. We warehouse a host of packaged activities, supplies, materials, and equipment that can be checked out by appointment. The warehouse is constantly being re-supplied so call to see if we have what you need and want. You can pick your supplies up by appointment or it



will be delivered directly to your school. An inventory has been prepared and is constantly being updated. The equipment inventory can be found in the Etowah GYSTC Website under Teacher Resources.

For more information about the GYSTC Resource Center supplies and scheduling, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.

STARLAB EXPERIENCE

(free with membership)

While the StarLab dome is considered by the State Board of Regence, Etowah GYSTC is able to run an online version of the StarLab via projectors, smart boards and computers. The presentation is identical to the in-dome version so all of the Georgia Performance Standards are covered during the lesson. One advantage of the lesson being presented in this way is that, as students have questions, the questions can be addressed as they arise, rather than having to wait until everyone exits the dome. This means that the lesson can be adjusted according to student and teacher questions and comments, otherwise not possible inside the dome.



For more information about the online version of StarLab programs and scheduling, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.

Professional Learning Training Activities

(free with membership)

Etowah GYSTC has plenty of Professional Learning Training programs that can be provided to your teachers. These programs can be used for classroom instruction enhancement as well as part of your teacher re-certification requirements. The Professional Learning Training can be customized to your school and teacher needs, based on your school Georgia Milestones results. Whether it be 5Es of Instruction, 3-D Instruction, or a selection from a host of Physical Science, Biological Science, Technology, or Engineering Activities that your teachers need, we can customize it for you.



For more information about the Professional Learning Training and scheduling, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.

In-Class Field Trip Activities

(free with membership)

Etowah GYSTC has plenty of Georgia Standards Based lessons that the Etowah GYSTC Coordinator can teach to your students in an In-Class Field Trip. The Coordinator will provide hands-on learning for your students in grades K-8. Lessons range from “Why is there Day and Night”, “How Does Sound Travel”, “How to Operate a Robot”, “Science of Flight using a Drone”, to “How to Collect DNA?”

The In-Class Field Trip can be customized to your school and teacher needs, based on your school Georgia Milestones results. Whether it be a selection from a host of Physical Science, Biological Science, Technology, or Engineering Activities that your teachers need, we can customize it for you.



For more information about the In-Class Field Trips and scheduling, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.



VIRTUAL AND ONLINE OFFERINGS FOR ETOWAH GYSTC MEMBERS

(free with membership)

VIRTUAL STARLAB SESSIONS

(free with membership)

This is a Virtual StarLab program that is presented through the Zoom online group meeting system. This online activity covers the Georgia Standards of Excellence in the area of Earth Science for grades 2nd, 4th, 6th, and 8th and can be crafted according to the needs of individual teachers for their classes. Any interested administrators and/or teachers can email Robert Young, the Etowah GYSTC Regional Coordinator, to schedule a time for their students to participate in a Virtual StarLab session. Since this is a virtual presentation, the time of day can be scheduled beyond what would normally be a school day. While this has been developed to provide services during the COVID 19 shut-down, this virtual offering will be available all year long as administrators and teachers desire it.



For more information about Virtual StaLab Sessions and scheduling, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.

ETOWAH GYSTC WEEKLY ONLINE STEM ACTIVITIES

(free with membership)

Etowah GYSTC began delivering a set of weekly STEM activities to participating school systems as a result of the school systems shut-down during the COVID 19 epidemic. As time continues, it is the intent of the regional coordinator to continue to send these materials to participating school systems despite the relaxation of a school shut-down. At least as long as administrators and teachers want to continue to receiving these weekly activities. If requested, this can continue through the summer as well. The STEM activities are chosen to address specific Georgia Standard of Excellence Standards in the STEM areas. The selected activities require little to no equipment so students and parents can perform the activities at home using normal household items. As a rule, there will be





several activities for students and parents to work on during the week. As the school session begins to restart in the Fall, if it does, the number of activities provided during each weekly distribution may be reduced to compensate for the fact that students will otherwise be working on other school assignments and will not have as much time to work on the Weekly STEM Activities.

For more information about ETOWAH GYSTC WEEKLY STEM ACTIVITIES, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.

VIRTUAL STEM PROFESSIONAL DEVELOPMENT

(free with membership)

A host of topics in the area of STEM have been and are continually being prepared for administrators and teachers to use as one way to satisfy their Professional Development (PL) requirements for recertification. These PL opportunities will be presented to administrators and teachers through in a group online meeting venue, such as Zoom. The schedule and registration for the Professional Development sessions will be posted on the State GYSTC.

The cost for the Professional Development will be free to administrators and teachers of participating GYSTC school systems.

For more information about VIRTUAL STEM PROFESSIONAL DEVELOPMENT, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.

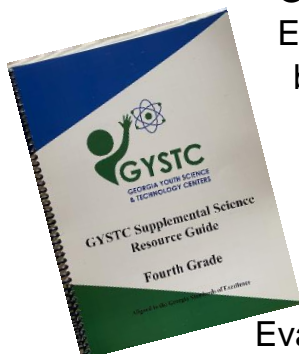


ONLINE ACCESS TO GYSTC RESOURCE GUIDES

(free with membership)

The GYSTC Supplemental Science Resource Guides are available to administrators and teachers in GYSTC participating school systems in Georgia. The Supplemental Science Resource Guides are found in hard-copy form as well as in digital form. They are organized by grade-level, Kindergarten through Eighth Grade and are aligned with the Georgia Standards of Excellence (GSE). Each grade-level guide is divided into four quarters with each quarter being composed of at least one specific science topic which is linked to a specific GSE standard. The number of units in each grade-level Supplemental Science Resource Guide ranges from five to eight units with six units being the most common number. The lesson plans for the activities in the units are developed around the 3 C and 5 E models of instruction so teachers are able to Engage the students through the Evaluation stage of the learning process. To access the online version,

administrators and teachers go to: GYSTC.org < GYSTC STEM Resources < Resource Guides < password: "gystc2020"

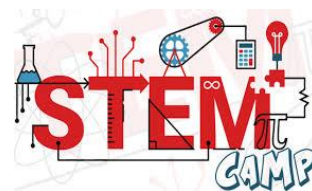


Note, this password is changed annually for member systems.
For more information about ONLINE ACCESS TO GYSTC RESOURCE GUIDES, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.

VIRTUAL DISCOVER GEORGIA STEM CAMP ACTIVITIES

(free with membership)

Discover Georgia STEM Camp will be held virtually this summer in June for all students! There will be exciting activities that will be demonstrated for students via video taping with a follow-up hands-on session that students can participate with at home using simple household items that they observed during the demonstration. These activities will be Georgia Standards Based and will be similar to the Weekly STEM activities that students have been receiving this Spring, 2020. As with the Weekly STEM Activities, the Discovery STEM Camp activities will require a minimum of supplies to perform. To learn more and register go to GYSTC.org.



For more information about 2020 VITRUAL DISCOVER GEORGIA STEM CAMP, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.

Virtual In-Class Field Trips

(free with membership)

Etowah GYSTC has plenty of Georgia Standards Based lessons that the Etowah GYSTC Coordinator can teach to your students in a Virtual In-Class Field Trip. Most of the activities in the repertoire of the coordinator have been converted into a virtual presentation and can be provided students through whole class or individual format. The Coordinator will provide virtual hands-on learning for your students in grades K-8. Lessons range from “Why is there Day and Night”, “How Does Sound Travel”, “How to Operate a Robot”, and “Vitual Forensics Investigation”.



Just as the Face-to-Face In-Class Field Trips, the Virtual In-Class Field Trip can be customized to your school and teacher needs, based on your school Georgia Milestones results. Whether it be a selection from a host of Physical Science, Biological Science, Technology, or Engineering Activities that your teachers need, we can customize it for you.

For more information about the In-Class Field Trips and scheduling, contact Dr. Bob at GYSTC@highlands.edu or call 706-266-0590.

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