

**Elementary Science Olympiad
Regional Qualifier
for
Bryan, Chatham, Effingham, and Liberty Counties
March 7, 2020
March 28, 2020 (Rain Date)**

List of Events

1. Backyard Biologist*
2. Barge Building
- REVISED** 3. Bridge Building*
4. Crime Busters
- NEW** 5. Data Crunchers*
6. Deep Blue Sea
- NEW** 7. Disease Detectives
- REVISED** 8. Egg Drop*
9. Grab a Gram
10. Mystery Architecture
11. No Bones About It
12. Paper Rockets
13. Rock Hound
14. Sink or Float
15. Water Rockets
16. Which Way Is North
17. The 24 Game*

* Directions for these events are NOT in the ESO manual - Backyard Biologist, Bridge Building, Data Crunchers, and The 24 Game.

Visit www.ceismc.gatech.edu/savannah or www.georgiascienceteacher.org/gaes0 for event directions.



2020 Elementary School Olympiad Regional Qualifier Tentative Schedule of Events

Time	Event & Location	Event & Location	Event & Location	Event & Location
8:00 – 8:20	Team Sign-In and Home Base Set Up			
8:30 – 9:00 30 minutes	Barge Building	Deep Blue Sea	Egg Drop	No Bones About It
9:10 – 10:10 60 minutes	Crime Busters	Disease Detectives	Grab a Gram	Which Way's North
10:20– 11:05 45 minutes	Backyard Biologist	Bridge Building	Data Crunchers	Paper Rockets
11:15 – 11:40 30 minutes	Mystery Architecture	Rock Hound	Sink or Float	Water Rockets
11:45 – 12:30	Lunch			
12:30 – 1:15	The 24 Game			
1:30	Awards Ceremony			

*Please note this schedule is tentative and may change. The final schedule of events will be included in the 2020 Savannah Regional Elementary Science Olympiad Welcome Letter.



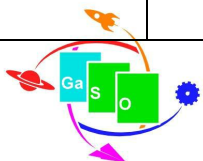
2020 Savannah Regional Qualifier ESO Event Clarifications

- I. We will follow the rules outlined in the 6th edition of Elementary Science Olympiad Rules Manual. New ESO rules manuals may be purchased from www.soinc.org. Additional event descriptions written especially for the Georgia ESO event are available on www.ceismc.gatech.edu/savannah or www.georgiascienceteacher.org/gaeso.
- II. The Elementary Science Olympiad Coaches manual is unclear about team sizes. Below is the final ruling on team sizes for both Savannah Regional Qualifier and the Georgia ESO in 2020.
 - a. Teams may be composed of up to 20 3rd-6th grade students. Each team may have up to eight 5th grade students or up to four 6th grade students, with no more than 8 total 5th **and** 6th grade students. Teams should be composed of students chosen from grade levels within the same building. **Only elementary schools going up to 6th grade may have 6th graders on their team.**
 - b. Only one teams of 20 students will be permissible from each school for the 2020 Savannah Regional Elementary Science Olympiad Competition.
- III. To provide clarity for this year's events at the Savannah Regional Qualifier and State ESO, we are using the following guidelines and limitations.
- IV. The Georgia Elementary Science Olympiad State Competition will be hosted at Kennesaw State University May 9, 2020.

Event	Materials Allowed	Number of Participants	Clarifications
Backyard Biologist Pre-selected questions used as tie breakers	Field Guides & Notebooks	2	<ul style="list-style-type: none"> Each team may bring up to 2 commercially produced field guide and/ or 2 – 3-ring binders with notes from any source. (This means 2 guides OR 2 binders OR 1 guide and 1 notebook.) No actual specimens-plants or animals- are allowed in the binders. Teams may also bring up to two hand lenses. Sample specimens list included in event description.
Barge Building Build time used as time breaker	None	2	<ul style="list-style-type: none"> The students will be able to load the cargo on the barge until it falls
The Game 24	None	2	<ul style="list-style-type: none"> This is a Georgia specific event. Each team of students will be provided with 32 game cards to solve in 30 minutes or less. Students will have to show their work on each card they solve.



Event	Materials Allowed	Number of Participants	Clarifications
Bridge Building Time is used as tie breaker; not additional weight Scissors provided	None	2	<ul style="list-style-type: none"> Each team will be provided with 1 meter of 1 inch masking tape. Standard popsicle sticks will be used instead of straws. The supports for the bridge shall be at least 74 cm (\pm 29 inches) above the floor. Each end of the bridge structure will rest on the supports, but the bridge structure shall not be connected to or attached to the supports in any way. Chalkboard erasers will be replaced with a rectangular square prism of clay that has a mass of 250 g. Students will be allowed to place the clay mass in the structure.
Crime Busters Time used as tie breaker	None	2	<ul style="list-style-type: none"> We will use coffee filters to make chromatogram from a pen. Lab coats/apron and goggles will be supplied at the event.
Data Crunchers Time used as tie breaker	None	2	<ul style="list-style-type: none"> Station based event. Students will rotate through the stations with a fixed amount of time for each station.
Deep Blue Sea Time used as tie breaker	None	2	<ul style="list-style-type: none"> Event will be limited to ocean flora and fauna (algae, kelp, fish, mammals, mollusks, and other living things) found in the oceans off the coast of Georgia. Part 1 & Part 2 of the event will be used.
Disease Detectives Time used as tie breaker	None	2	<ul style="list-style-type: none"> This event will utilize resources developed by the CDC.
Egg Drop Scoring/Tie Breaker 1. Egg unbroken 2. Distance from target center to egg container 3. Construction Time	None	2	<ul style="list-style-type: none"> Student must construct a device, onsite to cushion the egg when dropped from 2-3 meters Large, raw egg at room temperature will be used To limit mess, eggs will be placed in store brand sandwich zip top bag prior to building. Construction materials may not be attached to the egg (or bag).
Grab a Gram	None	2	<ul style="list-style-type: none"> Brown paper lunch sack for massing



Event	Materials Allowed	Number of Participants	Clarifications
Mystery Architecture	None	2	<ul style="list-style-type: none"> All materials will be provided. Pins will not be used during this competition. Due to the fragile nature of the towers, teams moving around the room during the competition will be disqualified.
No Bones About It Additional questions used as tie breaker	None	2	<ul style="list-style-type: none"> Actual bones, photo of bones, and models will be used. Event may contain a mixture of stations, multiple choice and fill in the blank questions.
Paper Rockets	None	2	<ul style="list-style-type: none"> Scissors provided Transparent tape (store brand) Ignore figure F in the manual on page 85, this is not a valid rocket design.
Rock Hound Time as a tie breaker	None	2	<ul style="list-style-type: none"> NO NOTES permitted Rock and mineral specimens will be provided during the event.
Sink or Float	None	2	<ul style="list-style-type: none"> All items will be in a covered container that students cannot uncover Predictions will be recorded on a team answer sheet After all answer sheets are submitted, students will test each item.
Water Rockets	Rocket	1-3	<ul style="list-style-type: none"> ALL ROCKETS MUST BE STUDENT BUILT. Parachutes are REQUIRED for all water rockets; the parachute does not have to successfully deploy to be classified as a successful launch. Water rockets must be 1 meter or less in total height. Only 1 launch per team. An official pneumatic launcher with the pressure and launch button will be used. Students must pack chute before they arrive. Students can pressurize and launch own rocket Only event staff can approach pressurized rockets (safety first) Straws aren't necessary for launching Goggles will be provided.
Which Way is North Time will be used a tie breaker	None	2	<ul style="list-style-type: none"> Limited to Georgia Maps of various types Calculators are not permitted Scales (rulers) will be provided Answer to distance questions will be set by Google Maps or equivalent program

