

# Georgia ESO Event Clarification



Georgia Science Olympiad

- I. We will be following the rules outlined in the 6<sup>th</sup> edition of Elementary Science Olympiad Rules Manual. New ESO rule manuals may be purchased from [www.soinc.org](http://www.soinc.org). Additional events descriptions written especially for the Georgia ESO event are available on [www.gascioly.org](http://www.gascioly.org)
- II. The Elementary Science Olympiad Coaches manual is a little unclear about team size. Below is the final ruling on team size for the GA ESO in 2019.
  - 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. (e.g. Only elementary schools going up to 6<sup>th</sup> grade may have 6<sup>th</sup> graders on their team.)
- III. Some of the ESO Events can be interpreted a bit broadly. In attempt to provide a little more clarity, the event at the State ESO will be run using the following guidelines/limitations.

Event	Materials Allowed	Number of Participants	Clarifications
<b>Backyard Biologists</b>  Pre-selected questions used as tie breaker	Field Guides & Notebooks	2	<ul style="list-style-type: none"> <li>• Each team may bring up to 2 commercially produced field guides and/or 2 – 3-ring binders with pages in any form from any source. (This means 2 guides, or 2 binders or a guide and a binder.) No Actual specimens –plant or animal - are allowed in the binders.</li> <li>• Teams may also bring up to two hand lenses.</li> <li>• Sample specimen list included in event description.</li> </ul>
<b>Barge Building</b>  Build used as tie breaker	None	2	<ul style="list-style-type: none"> <li>• The student will be allowed to load the cargo on the barge until it fails.</li> </ul>
<b>Bridge Building</b>  Time used as tie breaker; not additional weight  Scissors provided	None	2	<ul style="list-style-type: none"> <li>• Each team will be provided with 1 meter of 2.4 cm wide (1 inch wide) masking tape;</li> <li>• Standard popsicle sticks will be used instead of straws.</li> <li>• At competition the supports for the bridge shall be at <u>least</u> 74 cm (± 29 inches) above the floor.</li> <li>• Each end of the bridge structure will rest on the supports, but the bridge structure shall not</li> </ul>

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			<p>be connected to or attached to the supports in any way.</p> <ul style="list-style-type: none"> <li>The chalkboard eraser will be replaced with a rectangular square prism of clay that has a mass of 250 g.</li> <li>The student will be allowed to place the clay mass on the structure.</li> </ul>
<b>Crime Busters</b> Tie Breaker is TBD	None	2	<ul style="list-style-type: none"> <li>We will use coffee filters to make a chromatogram from a pen.</li> <li>Lab coats/aprons and goggles will be supplied at the event</li> </ul>
<b>Data Cruncher</b> Time used as tie breaker	None	2	<ul style="list-style-type: none"> <li>Station based event. Students will rotate through the stations with a fixed amount of time for each station.</li> </ul>
<b>Deep Blue Sea</b> Time used as tie breaker	None	2	<ul style="list-style-type: none"> <li>Event will be limited to ocean flora and fauna (algae, kelp, fish, mammals, mollusks and other living things) found in the oceans off the cost of GA.</li> <li>Part 1 &amp; Part 2 of the event will be used</li> </ul>
<b>Disease Detectives</b> Time used as tie breaker	None	2	<ul style="list-style-type: none"> <li>This event will utilize resources developed by the CDC.</li> </ul>
<b>Egg Drop</b> 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"> <li>Students must construct a device to cushion the egg when dropped from 2-3 meters</li> <li>Large, raw egg at room temperature will be used</li> <li>To limit mess, eggs will be placed in store brand sandwich zippy bags prior to building.</li> <li>Construction materials may not be attached to the egg (or bag).</li> </ul>
<b>Grab a Gram</b>	None	2	<ul style="list-style-type: none"> <li>Brown paper lunch sacks for massing</li> </ul>
<b>Mystery Architecture</b>	Tennis Ball, scissors, ruler, pliers	2	<ul style="list-style-type: none"> <li>All building materials will be provided and identical for each team.</li> <li>Each team of participants may bring: scissors, a ruler, a pair of pliers, &amp; practice tennis ball.</li> <li>Students will build structures on the ground, not tables or desks.</li> <li>Due to the fragile nature of towers, teams moving around room during competition will be disqualified.</li> </ul>

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<b>No Bones About It</b> <i>Additional questions used as tie breaker</i>	None	2	<ul style="list-style-type: none"> <li>Actual bones, photos of bones, and models will be used.</li> <li>Event may contain a mixture of stations, multiple choice and fill in the blank questions.</li> </ul>
<b>Paper Rockets</b>	None	2	<ul style="list-style-type: none"> <li>Scissors provided</li> <li>Transparent tape (store brand)</li> <li>Ignore figure F in manual on page 85. This is not a valid rocket design.</li> </ul>
<b>Rock Hound</b> <i>Time as tie breaker</i>	None	2	<ul style="list-style-type: none"> <li>NO NOTES permitted</li> <li>Rock and mineral specimens will be provided during the event.</li> </ul>
<b>Starry Starry Night</b>	None	2	<ul style="list-style-type: none"> <li>Red pen light is not needed.</li> </ul>
<b>Water Rockets</b>  <i>James Morris is available by appointment to help your team practice for this event.</i> <a href="mailto:morrisj1950@yahoo.com">morrisj1950@yahoo.com</a>	Rocket	1-3	<ul style="list-style-type: none"> <li>Parachutes are REQUIRED for all water rockets this year, <b>however the parachute does NOT have to successfully deploy to be classified as a successful launch.</b></li> <li>Water rockets must be 1 meter or less in total height.</li> <li>Coke brand bottles fit launcher most easily</li> <li><b>Only 1 launch per team this year.</b> An official pneumatic launcher with the pressure and launch buttons will be used. In addition:             <ol style="list-style-type: none"> <li>Kids should pack chute before they come (no parent help allowed)</li> <li>Kids can pressurize and launch own rocket</li> <li>During or after pressurizing, only event supervisors can approach the rocket (safety issue).</li> <li><b>Straws aren't necessary for launching</b></li> <li>Goggles will be provided</li> </ol> </li> </ul>
<b>Weather or Not</b>	None	2	<ul style="list-style-type: none"> <li>Images and actual weather tools will be used</li> </ul>
<b>Which Way Is North</b>  <i>Time as tie breaker</i>	None	2	<ul style="list-style-type: none"> <li>Limited to Georgia Maps of various types</li> <li>Calculators not permitted</li> <li>Scales (rulers) provided</li> <li>Answers to distance questions will be set by Google Maps or equivalent program</li> </ul>
<b>The 24 Game</b>	None	2	<ul style="list-style-type: none"> <li>This is a Georgia specific event.</li> <li>Each team of students will be provided with 30 game cards to solve in 30 minutes or less. Students will have to show their work on each card they solve.</li> </ul>

2021-2022

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## 2022 Elementary Science Olympiad Event Information

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