

## 2018 DeKalb Elementary Science Olympiad Event Clarifications – Updated on 02-12-2018

Fernbank Science Center assembles quizzes and activities for the DeKalb County Olympiad. We do not promise perfect agreement with clarifications issued for any other Olympiad, including the Georgia ESO.

Event Name	State Event	Comments
Backyard Biologist	*	This event does not appear in the Science Olympiad Manual. Use only the DeKalb Modified rules provided to your Head Coach. The DeKalb lists of Birds, Trees, and Shrubs / Vines / Flowers all differ slightly from those for the GA ESO.
Barge Building	*	<p>Note the metric units – the aluminum foil squares are 15 cm x 15 cm. (That's only about 6" on a side.) Any type of aluminum foil will work. We do NOT specify the type, so be sure your students practice with both thinner and thicker products.</p> <p>Students may bring and use their own scissors and ruler; we do not provide these for this event.</p> <p>Students must produce their estimate for predicted weight by hand (no calculator).</p> <p>Students may load / select the exact placement of each weight.</p> <p>Things to consider: Will it matter if weights are placed in the corners first, for example, or is it best to stack them in the middle? What if the weights are round things that roll, like marbles?</p>
Bridge Building	*	<p>We provide 1 meter of blue painters tape to each group. We will have scissors on hand, or students may bring their own. Students may bring a ruler if they like, but we do not provide those.</p> <p>ANY type of bridge is acceptable – it does not need to meet the technical definition of a suspension bridge.</p> <p>Students MUST stop building after the 30 minute build period.</p>
Can Race (DeKalb Modification)		Use only the DeKalb Modified rules provided to your Head Coach. We allow a much greater variety in the materials. We allow two runs.
Crime Busters		<p>Students must bring their own splash-proof goggles and a suitable lab coat or covering. Iodine stains clothes! We provide plastic well plates (either 12 or 24 wells) for students to use during powder identification, or students may elect to use a sheet of clear plastic wrap.</p> <p>Student may NOT bring in any sheets, including guides to go underneath their powder test locations.</p> <p>Students do not need to make fingerprints, only identify prints “found at the scene” by comparison with copies of fingerprint cards from the suspects.</p>
Data Crunchers	*	This event does not appear in the Science Olympiad Manual. Use only the DeKalb Modified rules provided to your Head Coach. Students will rotate through stations on a fixed time rotation.

Deep Blue Sea	*	Although we will also feature ocean animals, plants, and physical features related to the Georgia coast, we do <b>not</b> limit our questions to this area as they will at the Georgia ESO.
Disease Detectives	*	Practice Tip Sheet available on FSC site.
Don't Bug Me	*	Practice Tip Sheet available on FSC site. We allow participants to bring in a single student-made key. <b>All text must be hand-written.</b> We will allow both hand-drawn images and printed pictures that are physically cut-and-pasted onto the key. (No printed images may have any text on them.) The format for a "key" is flexible: a small poster, drawings and notes on a single large piece of paper, or a short booklet of 2-3 sheets of paper (both sides) are all acceptable. Print-outs of our Practice Tip Sheet are not acceptable as a key. Note: The Georgia ESO will not allow keys.
Mystery Architecture	*	We allow a 30 minute building time after which all groups must stop. Students may bring their own scissors, rulers, and pliers. We do not supply these.
No Bones About It	*	
Paddle Boat Construction (DeKalb Modification)		Use only the DeKalb Modified rules provided to your Head Coach. We allow two runs as long as the second starts within a 6-minute window. We provide #64 rubber bands.
Paper Rockets	*	
Pastamobile		Use only the DeKalb Modified rules provided to your Head Coach. We have two different ramps and will allow two runs on each. (Only the better distance counts on each ramp.) Our DeKalb modifications to the rules are intended to encourage students to think more deeply about engineering changes that might make their racer work better. The Event Judge will make all determinations about possible violations related to materials.
Pentathlon		A Practice Tip Sheet (listing subject areas and physical skills for 2018) is available on the FSC site. Teams that do not satisfy the "balanced team" rule of boys and girls may compete but will be ranked below all teams that satisfy the rule.
Picture This		A Practice Tip Sheet is available on the FSC site. With regard to rule #5, we also allow the current "guesser" to pass.
Rock Hound	*	We allow participants to bring in a single student-made chart. <b>All text must be hand-written.</b> We will allow both hand-drawn images and printed pictures that are physically cut-and-pasted onto the chart. (No printed images may have any text on them.) The format for a "chart" is flexible: a small poster, drawings and notes on a single large piece of paper, or a short booklet of 2-3 sheets of paper (both sides) are all acceptable. We collect charts used during each session, however, students may request their return following the Olympiad.

Simple Machines		
Starry, Starry Night	*	Students should expect BOTH constellations with stars connected by line segments and photos or representations without connecting segments. Nobody needs to bring a red penlight; our rooms do not get that dark.
Straw Egg Drop	*	
Straw Tower	*	We do NOT use pins. We provide 1 meter of masking tape or blue painters tape for each group. We provide scissors to groups that want them. <b>We used a 25 minute building time in 2017.</b>
The 24 Game (DeKalb Modification)	*	<p>This event does not appear in the Science Olympiad Manual. Use only the DeKalb Modified rules provided to your Head Coach.</p> <p>Practice cards are available from Suntex International, Inc.  <a href="http://www.24game.com">www.24game.com</a></p> <p>#33976 Four operations / Single digits  #39976 Four operations / Double digits  (Both are sets of 96 cards.)</p> <p>For the DeKalb ESO, we will allow students to write three separate lines for their "number sentences" or to use parenthesis to delimit the same. Allowed examples for a card with 5, 8, 4, and 7:</p> <p>(1) <math>4 + 8 = 12</math>  (2) <math>7 - 5 = 2</math>  (3) <math>12 * 2 = 24</math></p> <p>OR <math>(4 + 8) * (7 - 5) = 24</math></p> <p>Parentheses are REQUIRED to delimit the number sentences EVEN IF result would be correct in their absence based on applying the Order of Operations principles. As an example, here is a correct mathematical statement that is NOT acceptable by DeKalb ESO rules:</p> <p><math>4 + 8 + 7 + 5 = 24</math></p>
Water Rockets	*	Parachute required. 1 m max height. No metal parts other than a small snap swivel. For Construction Rule #3, we do NOT require a straw to be attached vertically to the bottle.
Weather or Not	*	
Which Way's North?	*	A Practice Tip Sheet is available on the FSC site.