

2024 DeKalb Elementary Science Olympiad

Event Clarifications

Issue Date: 02-27-2024 **FINAL**

For each event, use only the photocopied Event Descriptions you received from your Head Coach.

Event Name	Rules Clarifications	Practice Resource from Fernbank Science Center
1. Backyard Biologist (DeKalb Modified Event)	Use only the DeKalb Modified rules provided to your Head Coach. Tie Breaker: Pre-selected questions.	<u>TIP SHEET</u>
2. Barge Building	Teams receive a single 15 cm square sheet of standard aluminum foil. Teams that damage or tear their 1 st sheet may request a 2 nd , but they will be ranked below teams using only a single sheet. Students may bring and use their own scissors and ruler; we do not provide these for this event. Students must calculate their estimate for predicted weight by hand (no calculator) and receive a score for this portion of the event. We provide students with the mass of each piece. Students should practice converting their predicted mass into the corresponding number of pieces . Time permitting, students may load their barge for testing.	<u>VIDEO on YouTube</u>
3. Bridge Building (DeKalb Modified Event)	DESO and GAESO now use popsicle sticks for this event. See description for list of exact materials provided and clarified method of testing. We will provide 1 meter of standard (white) masking 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. The test mass is 250 grams.	<u>VIDEO on YouTube</u>
4. Cool It	Our Tie Breaker features a question about the science behind this event. Students should know examples of materials that have good thermal conductivity and poor thermal conductivity, common temperatures (e.g. boiling water, freezing water, room temperature, body temperature) in both degrees C and F. Students also draw a simple diagram showing how they built their Cool It box after they finish building. They should practice this skill. Can they label the materials used? Be sure they know words like Styrofoam, plywood, and aluminum.	
5. Crime Busters	Students should bring their own splash-proof goggles. No strong chemicals are used, but 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. Students may NOT bring in any sheets, including guides to go underneath their powder test locations. Students do not need to make fingerprints, only identify prints “found at the scene” by comparison with fingerprint cards for each suspect.	<u>TIP SHEET</u>

6. Data Crunchers (DeKalb Modified Event)	Use only the DeKalb Modified rules provided to your Head Coach. Students will rotate through stations on a fixed time rotation.	
7. Deep Blue Sea	Although we will also feature ocean animals, plants, and physical features related to the Georgia coast, we do not limit our questions to this area as they will at the Georgia ESO.	TIP SHEET
8. Disease Detectives	No clarifications.	TIP SHEET
9. Don't Bug Me	<p>We allow participants to bring in a single student-made key. All text must be hand-written. 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.)</p> <p>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. Printouts of our Practice Tip Sheet are not acceptable as a key.</p>	TIP SHEET
10. Egg Drop (DeKalb Modified Event)	Use only the DeKalb Modified rules provided to your Head Coach. See description for list of exact materials provided. Students receive 20 biodegradable (corn starch) peanuts. We provided samples to coaches present at the Kick-Off Meeting.	VIDEO on YouTube
11. Grab a Gram	No clarifications.	
12. Metric Mastery	No clarifications.	
13. Mystery Architecture	<p>We allow a 30-minute building time. (The manual has only 20 minutes.)</p> <p>Students may bring their own scissors, rulers, and pliers. We do not supply these.</p> <p>The Practice Tip Sheet for this event includes a list of the materials we commonly provide. Practice with those!</p>	TIP SHEET
14. No Bones About It	No clarifications.	PRACTICE QUIZ on THINGLINK
15. Paddle Boat Construction (DeKalb Modified Event)	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. All teams must use new rubber bands that we provide them with at the event.	
16. Paper Rockets	<p>We treat the Rocket Design provided in steps 1 – 6 as a suggestion. Teams may create alternative designs that use only the paper provided. Teams may choose the best dimensions and placement for fins.</p> <p>All teams can make two rockets, but they must choose one to compete with. Both members of your team launch the same rocket.</p>	
17. Pastamobile (DeKalb Modified Event)	At DESO, we use two different ramps with two runs on each. The better distance counts on each. One ramp features "speed bumps."	
18. Picture This	<p>Both students who are not currently sketching are allowed to guess at each term. Current "sketcher" or the current "guessers" may pass on a term. Students rotate in a fixed order.</p> <p>Tip Sheet includes a released word list from previous competition.</p>	TIP SHEET

19. Rock Hound	<p>We allow participants to bring in a single student-made chart. All text must be hand-written. 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.)</p> <p>The format for a “chart” is flexible: a small poster, 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.</p>	
20. Simple Machines	No clarifications.	<u>TIP SHEET</u>
21. Starry, Starry Night	Students should expect to encounter 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.	
22. Straw Tower	<p>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. Students may bring their own ruler if they wish.</p> <p>Towers must be free-standing with no tape attachments to table.</p> <p>We provide a 25-minute building time limit.</p>	<u>VIDEO on YouTube</u>
23. Tennis Ball Catapult	No clarifications.	
24. The 24 Game (DeKalb Modified Event)	<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. (www.24game.com)</p> <p>#33976 Four operations / Single digits #39976 Four operations / Double digits (Both are sets of 96 cards.)</p> <p>Students must write three separate lines / equations in their responses without grouping results together.</p>	
25. 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.	<u>TIP SHEET</u>
26. Weather or Not	No clarifications.	<u>TIP SHEET</u>
27. Which Way's North?	We use the 2017-2018 Georgia Roadmap from GDOT and provided copies in 2019 to each school for practice. Please contact Michael Dowling at Fernbank Science Center if you cannot locate your copy.	<u>TIP SHEET</u>