

Event Supervisors and Assistants Training Session



The Science Olympiad was created in 1983 by Dr. Gerard J. Putz and Jack Cairns to increase interest in science and as an alternative to traditional science fairs and single-discipline tournaments. After successful trial Olympiads were held in their respective states of Michigan and Delaware, the Science Olympiad began to grow. Now, the Olympiad has members in almost all of the 50 states, totaling more than 15,000 actively participating K-12 schools.



History of Event

The Science Olympiad is devoted to improving the quality of science education, increasing student interest in science and providing recognition for outstanding achievement in science education by both students and teachers. We hope to achieve these goals through participation in Science Olympiad tournaments, classroom activities, and summer training institutes for teachers. We also hope that our efforts can bring academic competition to the same level of recognition and praise normally reserved for athletic competitions.



Olympiad Goals

Background and Requirements:

- Teams of 12 students, lead by one coach.
- Each school can have more than one team.
- 13 different events
- Registration fee of \$165 (early) \$195 (late)
- Competition is May 9, 2015 9:00 am – 3:00 pm



Olympiad Criteria

Division A Events

- A is for Anatomy
- **Bridge Building**
- **Egg Drop**
- **Energy Lab**
- *Estimania*
- **Mystery Packaging**
- *Mystery Powders*
- Pentathlon
- Rock Hound
- Solid, Liquids, Gas
- Starry, Starry Night
- **Water Rockets**
- Who Wants To Be A Biologist



The Events

Rules and Criteria

- RULES ARE ALWAYS PRECEDENT
- Read over the rules and make sure you understand them.
- The rules are complex.
- Make sure you understand how the scoring criteria works.
- Check for clarifications at eso.floridascienceolympiad.org and click on Events
- The students will know them very well!



Rules

Rules:

Bolded items are changes from last year.

Check for items allowed

Check for what YOU need to provided to run event

Check how event is to be scored

EGG DROP

Description: The objective is to have a two-person team construct and bring to the competition a package to protect an egg from breaking after being dropped in a free fall from a high spot selected by the tournament director. **This is a PRE-BUILT EVENT.**

Number of Participants: 2 **Approximate Time:** 20 minutes **Impound:** YES

The Competition:

1. Teams will take the package to the location where the event will be run during the impound window. The mass and dimensions of the package will be measured before the egg has been added to the package. The egg will be added after the team arrives later in the day during the time in which the team is assigned to compete.
2. All loading of large, supervisor inspected Grade A eggs will occur during the assigned competition time, not during the impound window. Teams will have 10 minutes to load the egg and be prepared to drop. Students are responsible for the egg during loading, dropping, and unloading. The student must hand the egg to the supervisor once the drop is complete. Each package should be labeled with team name and number.
3. The package size and mass limitation is to be no more than 30 cm on a side and no more than 500 grams. Glass and metal may not be used. The package must be constructed by the competitors and brought to the tournament. The package may not contain anything that would aid in the package adhering to the target.
4. The package will be dropped free fall by one student from a height determined by the tournament director and announced in the morning of the competition. There will be only one drop with a time limit of three minutes to measure for the drop from the time the mass competition ends to begin. A check

Scoring:

1. Packages will be ranked in the following way:
 - a. Tier 1: Eggs that do not break or show cracks will be ranked first.
 - b. Tier 2: Those that break or crack will be ranked after those that do not.
2. The farthest distance of any part of the package to the center of the target will determine the score. The package with the shortest distance wins.
3. Ties will be broken by the lighter package measured without the egg.



Rules

Copies

- Send Mike all copies of tests and worksheets and answer sheets by May 1, 2015.



Lab and Research Events



Designing Lab/Research Events

- Make sure you write items, questions or activities that are aligned to the rules.
- Make several levels of items. Create 1/3 of each at an easy, medium, and difficult level.
- Make sure no one can get a 100%. If several teams get 100%, it is difficult to determine 1st place.
- Have a system for breaking all ties.



Lab/Research Events

Designing Lab/Research Events

- Know how ties will be broken. This could be as simple as posting the questions that will be tie breakers. (For example, Question 1, 3, 5 in that order will break ties.)



Lab/Research Events

Essays

- Write an answer key to the essay that you consider an ideal score.
- Identify factors that make it ideal.
- Determine the number of points for ideal.
- Determine what constitutes awarding fewer points.



Lab/Research Events

Calculations

When scoring for calculations, determine a range that will receive highest number of points.

Example: Measuring mass and acceleration to find force, student collects the following data and finds the force to equal 56.7 N:

$$m = 10.5 \text{ kg}$$

$$a = 5.4 \text{ m/s}^2$$

A scoring rubric might give: 5 points for 58 and 55
3 points for 61 and 52
0 points if beyond 61 and 52



Lab/Research Events

Designing Lab Events

- Be clear and concise about what you want students to do.
- Stay away from tricky questions.
- Try to do as much hands on as possible.
- Ensure that there is a space for NAMES and TEAM NUMBERS



Lab/Research Events

Engineering Events



Impounding/Construction

Construction Events:

1. Bridge Building
2. Mystery Packaging

Impound Event:

1. Water Rockets



Engineering Events



Construction Events

- If you are Event Supervision at event that requires a device to be constructed, be ready for teams at 9:00
- Setup BEFORE 8:00 am
- Make sure area is guarded for devices
- Make sure teams have team number on devices
- Teams must all report during construction period.

Engineering Events

Impounding Engineering Event

- If you are Event Supervision at event that requires a device to be impounded, students will have until 10:00 am to turn in.
- No modifications are allowed to device after this time. But can suggest that something needs fixed.
- Give students a receipt.



Engineering Events

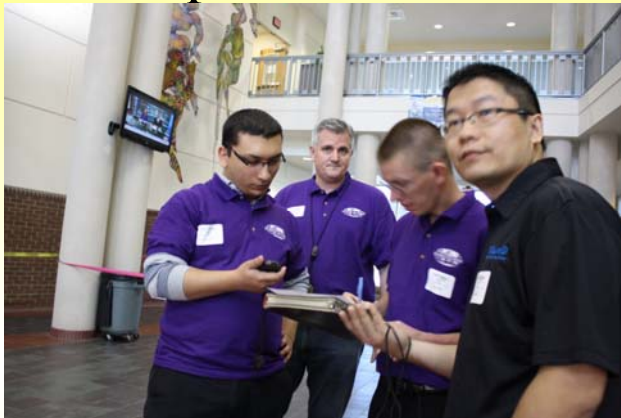
Impounding

- Do not release times, distances, and other pertinent information prior to the impounding.
- Make sure students have their Team ID numbers and names on the devices.



Engineering Events

Event Supervisor Procedures



Team Numbers

- Students must have these before they compete.
- Make sure they have a wristband and check to be sure the team number is on it.
- Make sure they are in the correct hour.
- You also have them on the scoring summary sheet.
- Students **MUST** sign in as they enter the room or location.



Event Supervision

Event Templates

- To help with Scoring, make sure your test and lab sheets have a format like this one:

| | | |
|---|---------------------------|-------------|
| TITLE of EVENT | Raw Score: _____ | Rank: _____ |
| Judge Name | Team Number: _____ | |
| | Tie Breaker Method: _____ | |
| | Team Name: _____ | |
| Team Member 1: _____ | Team Member 2: _____ | |
| Team Member 3: _____ | Team Member 4: _____ | |
| If this team was disqualified, explain why: _____ | | |
| Directions to students: | | |



Event Start Time

- Use Internet/Cell Phone Time
- Let teams in even if they are late, but don't give them extra time at the end.
- It is not a benefit if they are late.
- If they come in and disturb, then they can be disqualified.



Event Supervision

Schedule

| Event | Location | Nc. of Students | Impound? | Open to Public? | 09:00 to 09:50 | 10:00 to 10:50 | 11:00 to 11:50 | 12:00 to 12:50 | 13:00 to 13:50 | 14:00 to 14:50 |
|---------------------|-------------|-----------------|----------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| A is for Anatomy | BA1 126 | 1 or 2 | | No | | 01-09 | 10-11 | 19-27 | 28-36 | 37-45 |
| Bridge Building | ENG2 Atrium | 1 or 2 | | Yes | Construct | | | Self Schedule | | |
| Egg Drop | ENG2 Atrium | 1 or 2 | | Yes | | 01-09 | 10-18 | 19-27 | 28-36 | 37-45 |
| Energy Lab | BA1 116 | 1 or 2 | | No | | 37-45 | 01-09 | 10-18 | 19-27 | 28-36 |
| Estimania | BA1 146 | 1 or 2 | | No | | 28-36 | 37-45 | 01-09 | 10-18 | 19-27 |
| Mystery Packaging | BA1 207 | 1 or 2 | | No | Construct | | | Self Schedule | | |
| Mystery Powders | BA1 122 | 1 or 2 | | No | | 19-27 | 28-36 | 37-45 | 01-09 | 10-18 |
| Pentathlon | Behind HEC | 4 | | No | | 10-18 | 19-27 | 28-36 | 37-45 | 01-09 |
| Rock Hound | BA1 209 | 1 or 2 | | No | | 37-45 | 01-09 | 10-18 | 19-27 | 28-36 |
| Solid, Liquids, Gas | BA1 121 | 1 or 2 | | No | | 28-36 | 37-45 | 01-09 | 10-18 | 19-27 |



Event Supervision

Event Instructions

- Make sure before any student leaves your room that all materials have been returned, you have accounted for all handouts and that all supplies are clean.
- To help with cleanup at end of day, please gather supplies to one place in the room.
- Bring back garbage bags



Event Supervision

Disqualifications

- If a student is outright disrespectful, they can be disqualified. In addition, multiple problems or outright cheating can result in the disqualification of the entire team.
- Notify Tournament Director if there is a problem that could lead to this.



Event Supervision

Disqualifications

- If a student is disqualified, note the reason on the Scoring Sheet and student work.
- There is a difference between legitimate mistakes and blatant disregard for the rules. Make a judgment about a which category the students may fall into when assigning points.



Event Supervision

Disqualifications

- DQ's for scoring purposes are not:
 - When students attempted but didn't follow the rules.
 - Built something incorrectly.
 - Didn't have safety equipment.
 - Anything **other than behavior related**.



Event Supervision

Mistakes

- You are the event supervisor, so you are empowered to make decisions.
- However, if you make a mistake interpreting the rules, and catch it **AFTER** the first school competes, continue the mistake throughout the day.



Event Supervision

Arbitration

If a student has a problem with a ruling, they are instructed to pick up an Arbitration Form. These are at the help desk. **ONLY STUDENTS CAN FILE**

| FLORIDA SCIENCE OLYMPIAD APPEAL FORM <small>ONLY STUDENTS MAY INITIATE AN APPEAL</small> | | |
|---|----------|----------------|
| Your Event | Division | Team Number |
| Your Coach | School | Coach CELL No. |
| STUDENTS: Tell us what rule procedure you feel was violated? (Cite specific rule and paragraph from manual) | | |
| STUDENTS: Tell us how rule procedure was not followed (Attach additional sheets if necessary) | | |
| STUDENTS: Give us a suggested resolution or fix that is equitable to your team and all others competing: | | |
| 1. Get Signatures Student's Signatures Appealing Coach's Signature w/ Phone # | | |
| Event Supervisor's Opinion: (Please do not interrupt judging) | | |
| 2. Take to judge, and get judge's signature Event Supervisor's Signature | | |
| Arbitrator's Resolution: (The decision of the arbitrator is final) | | |
| 3. Return to help desk Arbitrator's Signature | | |
| RETURN FORM TO HELP DESK. DECISION POSTED AT HELP DESK. | | |



Event Supervision

Arbitration

- They are **NOT** to engage you in a prolonged debate.
- The Arbitration Team will make the **FINAL** ruling.

| FLORIDA SCIENCE OLYMPIAD APPEAL FORM <small>ONLY STUDENTS MAY INITIATE AN APPEAL</small> | | |
|---|----------|----------------|
| Your Event | Division | Team Number |
| Your Coach | School | Coach CELL No. |
| STUDENTS: Tell us what rule procedure you feel was violated? (Cite specific rule and paragraph from manual) | | |
| STUDENTS: Tell us how rule procedure was not followed (Attach additional sheets if necessary) | | |
| STUDENTS: Give us a suggested resolution or fix that is equitable to your team and all others competing: | | |
| 1. Get Signatures Student's Signatures Appealing Coach's Signature w/ Phone # | | |
| Event Supervisor's Opinion: (Please do not interrupt judging) | | |
| 2. Take to judge, and get judge's signature Event Supervisor's Signature | | |
| Arbitrator's Resolution: (The decision of the arbitrator is final) | | |
| 3. Return to help desk Arbitrator's Signature | | |
| RETURN FORM TO HELP DESK. DECISION POSTED AT HELP DESK. | | |



Event Supervision

Parents and Teachers

- Parents and teachers can WATCH the outside events, but they are not allowed in the door-closed rooms during events.
- They must remain a distance from the events, as you so choose. But, they are not to help the students, and they are not to engage in a debate about problems.



Event Supervision

Scoring



Scoring

- NEW SCORING PROCEDURE!
- Team Ranking Points (TRP) will be assigned a range of points from 1-17
- All ties must be broken for ranking points 1-16. (Except last place and beyond.)
- Beyond a ranking point of 18, no ties need to be broken.
- All raw scores must be determined.



Scoring

Scoring

- Teams that rank in places 1-17 will receive 1-17 pts
- Teams that rank in places 18-35 will receive 17 pts
- Teams that compete but can't be scored (rare case) receive a P and last place of those teams that show up
- Teams that are No Show NS receive n+1 points or 18 pts
- Teams that are disqualified (DQ) for unsportsmanlike conduct receive n+2 points (or more) or 19 points.
- Lowest combined score of all the events will determine the winner of middle and high school.



Scoring

Scoring Example

- 35 Teams
- n = 17
- 1st place = 1 TRP
- 2nd place = 2 TRP
- 18th place to 37nd place = 17 TRP
- P = Variable, but most likely 17 points
- NS = 18
- DQ = 19+++

Ties allowed with ranking points of 17-19

Break ties with team ranking points 1-16



Scoring

Scoring Sheet

Fill out this sheet at the end of the event. Rank the schools from 1st to 17th Place. All ties must be broken with ranking points of 1-16. Write in rank!

| | Click to return to start sheet Click to print this sheet State) | Raw Score | Tier | Tie Break | Click to toggle gridlines | | | | | | |
|--------|---|-----------|------|-----------|---|--------|------|-----|------|------|-----|
| 1 | B01-Lewis E Wadsworth Elementary-Buddy Taylor/Wadsworth | | | | <div style="border: 1px solid black; padding: 5px;"> <p style="margin: 0;">SCORE REPORT FORM DIV. B</p> <p style="margin: 0;">Sort Orders (Circle which wins)</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <tr> <td style="width: 30%;">Scores</td> <td style="width: 35%;">HIGH</td> <td style="width: 35%;">LOW</td> </tr> <tr> <td>Ties</td> <td>HIGH</td> <td>LOW</td> </tr> </table> <p style="margin: 0;">INSTRUCTIONS:</p> <p style="margin: 0;">1. PLEASE BRING THIS FORM TO HEADQUARTERS ASAP!</p> <p style="margin: 0;">2. <u>Special Codes:</u> "p" for participation, "ns" for no show, "dq" for dq'd (without the quotes) allowed in any column.</p> <p style="margin: 0;">3. <u>Raw Score column:</u> Raw score or special code from above.</p> <p style="margin: 0;">4. (Optional) <u>Tier column:</u> Tier 1 ranks higher than Tier 2, etc.</p> <p style="margin: 0;">5. <u>Tie Break column:</u> ALL TIES</p> </div> | Scores | HIGH | LOW | Ties | HIGH | LOW |
| Scores | HIGH | LOW | | | | | | | | | |
| Ties | HIGH | LOW | | | | | | | | | |
| 2 | B02-River City Science Academy-RCSA Rockets Red | | | | | | | | | | |
| 3 | B03-Southwestern Middle School-Southwestern Tigers | | | | | | | | | | |
| 4 | B04-Deland Middle School-Deland Middle School | | | | | | | | | | |
| 5 | B06-River City Science Academy-RCSA Rockets Blue | | | | | | | | | | |
| 6 | B07-Heritage Middle School-Eagles | | | | | | | | | | |
| 7 | B08-Deltona Middle-Deltona Chargers | | | | | | | | | | |
| 8 | B09-River Springs Middle School-Gators | | | | | | | | | | |
| 9 | B10-Galaxy Middle School-Galaxy Team Brichler | | | | | | | | | | |
| 10 | B12-Galaxy Middle School-Galaxy Team Innes | | | | | | | | | | |
| 11 | B13-Galaxy Middle School-Galaxy Team Krob | | | | | | | | | | |
| 12 | B14-New Smyrna Beach Middle School-NSBMS Stingrays | | | | | | | | | | |
| 13 | B16-Burns SciTech Charter School-Eagles | | | | | | | | | | |
| 14 | B17-Galaxy Middle School-Galaxy Team McClarty | | | | | | | | | | |
| 15 | B18-Switzerland Point Middle School-SPMS Science Raiders | | | | | | | | | | |



Scoring

Excel Scoring Sheet

| | Click to return to start sheet | Click to print this sheet | Raw Score | Tier | Tie Break | Place | Points |
|----|--------------------------------|---------------------------|-----------|------|-----------|-------|--------|
| 1 | | | 7.25 | 1 | | 8 | 8 |
| 2 | | | 2.83 | 1 | | 11 | 10 |
| 3 | | | ns | | | ns | 11 |
| 4 | | | 7.70 | 1 | | 7 | 7 |
| 5 | | | ns | | | ns | 11 |
| 6 | | | 31.97 | 1 | | 1 | 1 |
| 7 | | | ns | | | ns | 11 |
| 8 | | | 4.26 | 1 | | 10 | 10 |
| 9 | | | 20.70 | 1 | | 4 | 4 |
| 10 | | | 17.87 | 1 | | 5 | 5 |
| 11 | | | 24.05 | 1 | | 2 | 2 |
| 12 | | | ns | | | ns | 11 |
| 13 | | | 9.13 | 1 | | 6 | 6 |
| 14 | | | 22.5 | 1 | | 3 | 3 |
| 15 | | | 5.02 | 1 | | 9 | 9 |

Import data from another workbook

SCORE REPORT FORM DIV. B

Event: Bottle Rocket

Sort Orders

Scores: High Value Wins

Ties: Low Value Wins

Create rank sorted version of sheet

| Place | Team | Score | Tier | Tie |
|-------|------|-------|------|-----|
| 1st | 6 | 31.97 | 1 | |
| 2nd | 11 | 24.05 | 1 | |
| 3rd | 14 | 22.5 | 1 | |
| 4th | 9 | 20.70 | 1 | |
| 5th | 10 | 17.87 | 1 | |
| 6th | 13 | 9.13 | 1 | |

- File is at eso.floridascienceolympiad.org , The Competition, Training.



Event Raw Score Spreadsheets

The event based excel spreadsheets are different from the master scoring spreadsheet. Raw scores are determined here, but need to be recorded in the master spreadsheet.

| Team Number | Team Name | Number of Teams | Impounded on Time (Y/N) | Official Drop | Final Score | Score (the indicator is 'Tie') | Tier | Tie Break | Raw Score | Tier | Tie Break | Place | Points |
|-------------|-----------|-----------------|-------------------------|---------------|-------------|--------------------------------|------|-----------|-----------|------|-----------|-------|--------|
| | | | | | | | | | 7.25 | 1 | | 8 | 8 |
| | | | | | | | | | 2.83 | 1 | | 11 | 10 |
| | | | | | | | | | ns | | | ns | 11 |
| | | | | | | | | | 7.70 | 1 | | 7 | 7 |
| | | | | | | | | | ns | | | ns | 11 |
| | | | | | | | | | 31.97 | 1 | | 1 | 1 |
| | | | | | | | | | ns | | | ns | 11 |
| | | | | | | | | | 4.26 | 1 | | 10 | 10 |
| | | | | | | | | | 20.70 | 1 | | 4 | 4 |
| | | | | | | | | | 17.87 | 1 | | 5 | 5 |
| | | | | | | | | | 24.05 | 1 | | 2 | 2 |
| | | | | | | | | | ns | | | ns | 11 |
| | | | | | | | | | 9.13 | 1 | | 6 | 6 |
| | | | | | | | | | 22.5 | 1 | | 3 | 3 |
| | | | | | | | | | 5.02 | 1 | | 9 | 9 |



Scoring Sheet

- Turn in the scoring summary sheet with ALL of the student work (labs, tests, scoring sheets) to the Scoring Room in the following order:
 1. Fill out Scoring Checklist
 2. Place student work in RANK order, 1st Place on Top
 3. Print out Scoring Summary Sheet in CROL 102
 4. Be ready to READ ALOUD the student work with Team No., Raw Score, Rank.



Scoring

Score Counseling

To ensure that all scores have been entered correctly, scores will be verified. Make sure you fill out this form before entering score counseling



Checklist for Science Olympiad Event Supervisors (ES)



ES Name: _____ ES's: Bring this to Scoring Room
 Event Name: _____ DIVISION: _____

| <input checked="" type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | Score Counselor Name _____ | Score Counselor Verify (if approved, Mark if not) |
|---|--|---|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Did you verify that the room is clean and returned to its original condition and is ready for the teachers and classes on Monday? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Did you use the ELECTRONIC version of EXCEL? (If you did the paper copy of the form select NO.) | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Did you EXPLAIN how raw score ranking is derived (as high score, low score, or shortest time)? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | ALL THESE are broken, when appropriate. | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Method for breaking ties is explained on Scoring Summary Sheet or answer key. | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Were there any DISQUALIFIED TEAMS? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Does each disqualified team have a detailed explanation? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Did you VERIFY scores for NO SHOWS - each should have appropriate mark? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Are the EVENT RAW SCORES transferred properly onto Score Summary Sheet? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Does the RANKING correspond to the raw scores? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Did you collect all notebooks, answer sheets, tests, and student answer sheets and placed in Rank Order, with FIRST PLACE on top? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Collect Student Assistant Checklist. Has the classroom been cleaned? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Did you edit the rules for clarity? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | VERIFY TEAM ID # AND TEAM NAME for 3 rd , 2 nd , & 1 st place on all forms. Are they legible? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Did you SIGN the SCORE SUMMARY SHEET? | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Write your cell phone or contact number here. | <input type="checkbox"/> |

Scoring Summary Sheet

- The scoring room is CREOL and you will be directed to a computer lab.
- Please leave your cell number or stay for 1 hour after event ends. Arbitrations must be cleared for your event.



Scoring

Lunch!

- Lunch will be available at 11:30 am.
- In CREOL Lobby



Event Supervision

When, Where, What

- CREOL 102 to pick up packets.
- Meeting at 8:10 a.m in CREOL 102/103
- Head to the rooms to finalize the setup and figure out any last minute issues.
- Impound and Construction begins at 9:00 am
- Event setup will be from 7:00 to 10:00 am
- Events start at 10:00 am
- Have a great day!



Event Supervision

For More Information:

eso.floridascienceolympiad.org

Twitter: @scienceolympiad

Email

mike@floridascienceolympiad.org



Contact