

Science Olympiad Scoring Spreadsheet Tools

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What is this folder?

This folder contains a copy of the spreadsheet to copy, an example of the spreadsheet in use, some default files for the special features of the spreadsheet, and an archive of past versions/templates (starting v1.3.1).

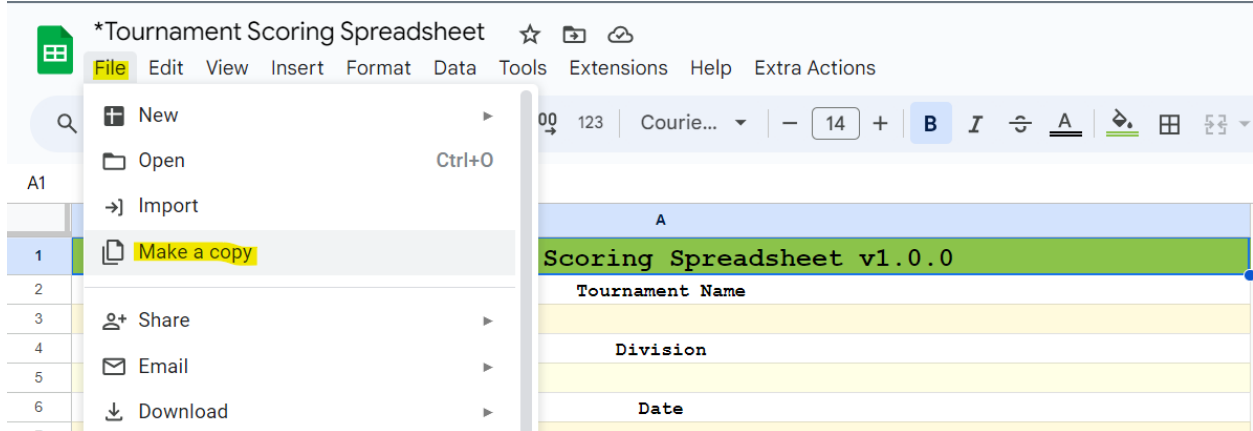
The slide templates are merely there to show how to make a slide template, demonstrating that template slides can have additional elements other than just the textboxes for placements. The blank scoresheet is cloned by an extra action script to generate a scoresheet in the format of the national tournament.

Who should use this spreadsheet?

This spreadsheet is intended to handle all parts of the tournament scoring process for tournament directors/organizers. It contains many features to make this easier, from tie detection (and overall tie breaking), tiers, scores, and Apps Scripts that can generate slideshows for award ceremonies, scoresheets, histograms, and more, all with a simple UI built upon Google products. The spreadsheet is completely free, requiring only a Google account to use, and has a similar use case to the [Science Olympiad Scoring System Excel sheet](#) (though this is completely unaffiliated and created independently) or [Duosmium Scoring](#). However, this spreadsheet uses Google suite of products to seamlessly enhance collaboration without requiring collaborators to create a new account by taking advantage of Google's excellent collaborative tools and keeping all actions in browser Google products.

Importantly, this spreadsheet is not intended for use by individual event supervisors or competitors; it is designed for directors and other tournament staff to consolidate results from every event. For a spreadsheet for individual events that ranks based on raw score and tier, please see [the sheet for individual events](#).

Using the spreadsheet:



To use the spreadsheet, make a copy of the spreadsheet. Upon making a copy, the spreadsheet will prompt you to run the “Start set up” command, which can be found under the “Set up” tab in the Google Sheets menu. **Important: You will need to give the scripts permission.** After running “Start set up”, the yellow cells in the “Settings” sheet should be fully filled out, and the correct events should appear in the spreadsheet.

In general, the only cells that need to be filled out are the yellow cells. Anything else will be automatically updated and does not require user input. For the most part, these cells are protected by default and show a warning if edited. Many of the more important yellow cells (such as the list of teams) are protected to only be able to be edited by you (the owner of the file) for security.

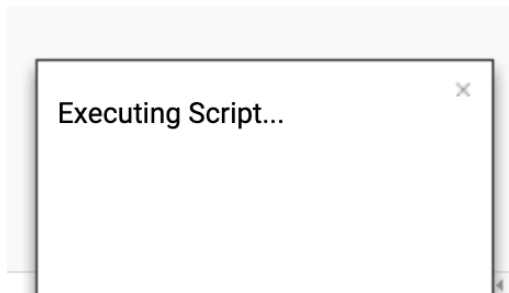
1. Fill out the “Settings” sheet first. This is not mandatory, but it will help format some other documents. If you did the set up process, this will already be filled out.
2. Next, fill out the “Team List” Sheet with a list of all of the team names and numbers. School name refers to the name of the school itself (i.e. Seven Lakes High School) and can have duplicates. Suffix refers to the identifier after the team like A/B/C, Blue, Varsity, or some analogous identifier. States are required for the Duosmium export but not mandated for the function of this spreadsheet.
3. The Overall tab is automatically filled, but ties must be manually broken by adding penalties in the Overall tab. Overall ties will be highlighted red
4. This step only applies if you did not use the set up process:
 - a. Use the “Change Event Names” option in the Extra Actions menu to change the spreadsheet to properly reflect the tournament event slate. This is extremely important, as it does a number of other important functions such as removing trials on events, protecting the sheets, and adjusting the overall spreadsheet, so use this function to change the number/names of events (i.e. do not change them manually). You should do this after entering in the teams, as it will automatically resize the first column to fit the team names.
5. To add rankings for individual events, navigate to the sheet corresponding to the name of the event. Trial events can be set in the Tried Events sheet.
6. Use the Tried Events sheet to set any drops or trial events. Place a 1 in each cell that corresponds to an event for a team that should not count towards the team score. Therefore, if an event is trialed for all teams, then replace the entire column with 1. See [the example](#) for a guide on how to use the sheet. **A team is still ranked and can still win a medal even if it is trialed for an event such as for a drop.**

Important Notes:

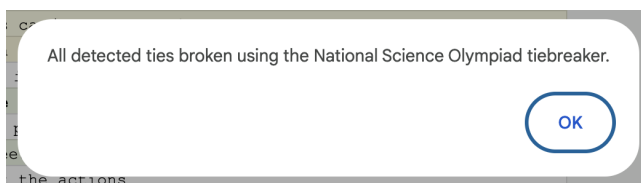
- **Do not create or delete any sheets.** Programs will automatically create or delete sheets as necessary when the Extra Actions or set up are run.

- Do not rename or move the location of any existing sheets in this spreadsheet. Doing so may cause inaccuracies in the Extra Actions and/or event rankings.
- Any ties will appear as bright red cells. In an individual event spreadsheet, the whole row will turn red upon a tie, but these ties cannot be automatically broken because of the many different ways to tiebreak in cases like this. However, overall ties will show only the score and team name as red, and can be automatically broken with the tiebreak extra action.
- Any score that is not contributing to a team's overall score will appear as pale blue in the Overall sheet to indicate this fact.
- The spreadsheet sends status updates through two different means: toasts and alerts. Toasts appear in the bottom right of the Sheets web page and disappear after a short time, so they are used for status updates while the script is in progress. Alerts persist until acknowledged, thus stopping the script until OK is pressed, so they are only used in important cases, such as the alert that some events are not marked as finished, or to notify you of the actions' completion.

○ Toasts:



○ Alerts:



- You can close the sidebar after starting an action, although it's better to keep it open in case you need to adjust any of the settings. Settings do not save when the sidebars are closed.
- You can activate multiple extra actions at once, but it's not advisable, as it slows down both scripts.

Individual Event Rankings

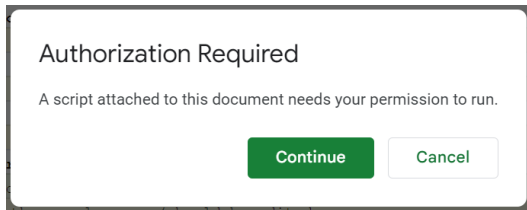
To rank a single event, fill out the sheet labeled with the name of the event. The teams are automatically filled in based on the team list sheet, but you will need to input scores and tiers. Additionally, at the top of each event sheet, you can change whether the highest or lowest score wins (if the highest score wins, leave the checkbox checked; otherwise, uncheck the checkbox). There is also a status checkbox that should be checked when the event is done being graded and scores are finalized. This will change the name of the event in the Overall spreadsheet from pale red to green to mark that the event is complete.

Air Trajectory			
Highest Score Wins?			☒
Scoring Complete			☒
Team	Score	Tier	Rank
C1 - Alpha A	5.00	1	2
C2 - Beta A	2.00	1	4
C3 - Gamma A	3.00	2	7
C4 - Delta A	NS	1	11
C5 - Epsilon Blue	4.00	1	3
C6 - Zeta Blue	10.00	1	1
C7 - Eta Varsity	PO	1	10
C8 - Alpha B		1	
C9 - Alpha C	1.00	1	5
C10 - Kappa A	4.00	2	6

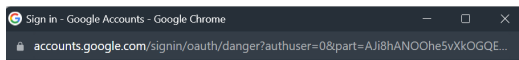
This image from the example sheet shows how to use the individual sheets. In the Score column, enter in the scores of the corresponding team as a number. You can also enter P or PO for participation points (N), NS for a no show (N+1), and DQ for a disqualification (N+2), where N is the total number of teams. Leaving the score cell blank will be treated as a no show and earn the rank N+1 by default. In the tier column, change the number to the tier of the corresponding team (1 by default). **Leaving the tier cell blank is the same as the team being tier 1.**

Giving permissions

The “Extra Actions” tab of the spreadsheet houses the special functions of this sheet. Unfortunately, to use these functions, you will need to authorize the scripts to run (this also applies for the Set Up, which is just a wrapper running an extra action in the background). First, choose an extra action (or the set up command) to run and the following prompt should appear,



Click continue and then choose the Google account you are using. Then,



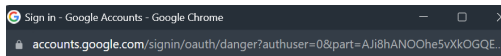
Google hasn't verified this app

The app is requesting access to sensitive info in your Google Account. Until the developer (lastlegume@gmail.com) verifies this app with Google, you shouldn't use it.

Advanced

BACK TO SAFETY

The email that you see will be your email. Then, click “Advanced”



Google hasn't verified this app

The app is requesting access to sensitive info in your Google Account. Until the developer (lastlegume@gmail.com) verifies this app with Google, you shouldn't use it.

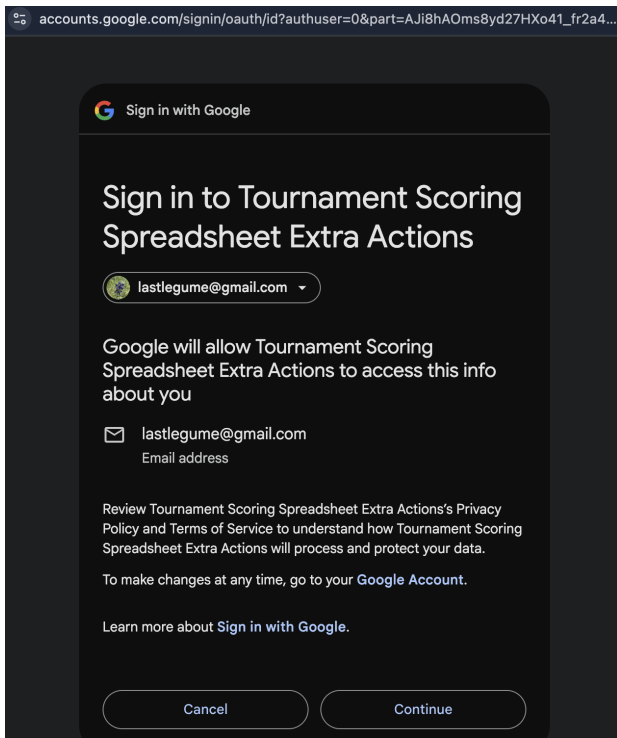
Hide Advanced

BACK TO SAFETY

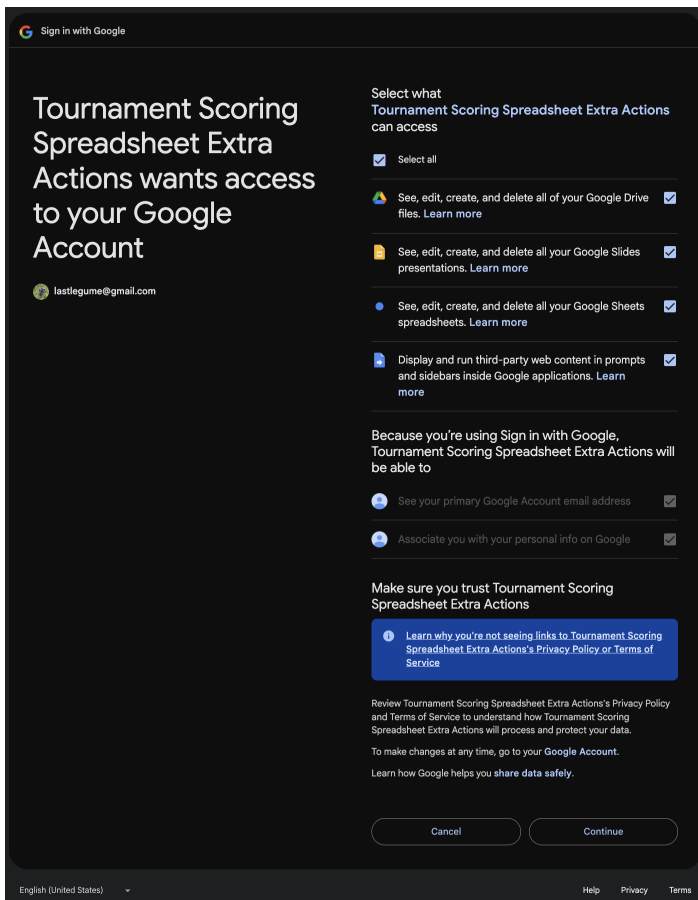
Continue only if you understand the risks and trust the developer (lastlegume@gmail.com).

[Go to Award Slides Generator \(unsafe\)](#)

Click “Go to Awards Slides Generator (unsafe).” Google marks anything not approved by them as unsafe, and you can read more about the [approval process here](#). I (the developer) will try to get to verifying these scripts, but for now, it'll be marked as unsafe.



Click “Continue.” This will bring up a list of permissions used by the spreadsheet.



Click “Select all” and then ”Continue” (you will probably need to scroll down). If you are worried about selecting all of the permissions, please read below about what each permission is used for. If you are not planning to use a feature, don’t select the checkbox corresponding to the permission. You can also manually verify when each is used by checking the source code (Extensions > Apps Script in the Sheets menu). Permissions are often referenced using the name of the source with the suffix

“App.” For example, most uses of the drive permission will have the word “DriveApp” in the same line or in the instantiation of a variable referenced in the current line.

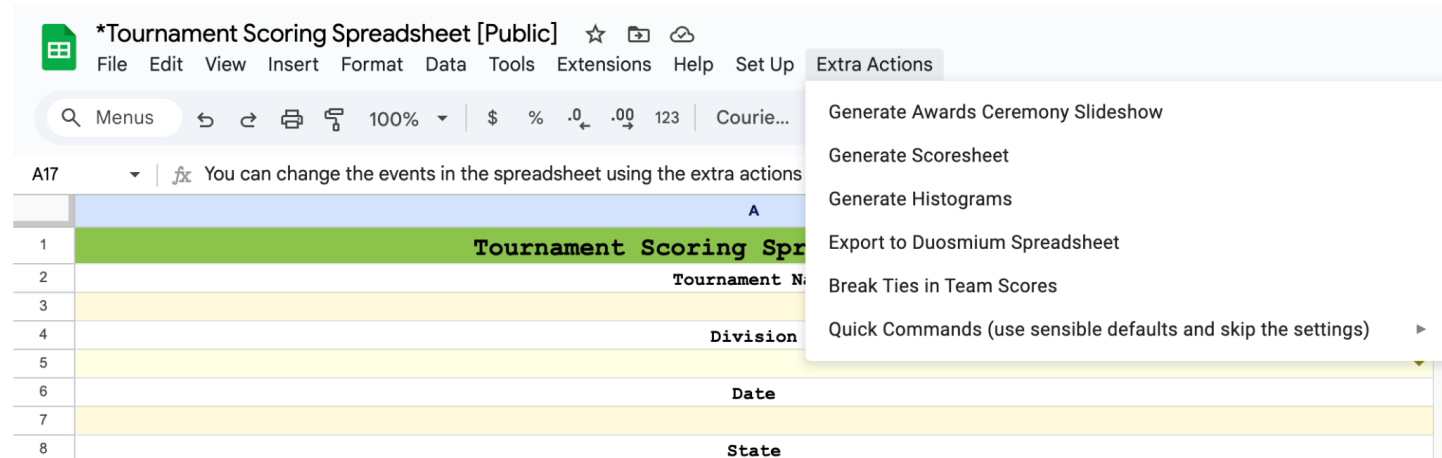
Permission	Use in program	Effect of not granting permission
Drive	Used to save histograms to drive and move files around	Histogram generation will not work and all created files/folders will be in “My Drive”
Slides	Used to create the awards ceremony slideshow and read the template slideshow	Award ceremony slideshow generation will not work
Sheets	Every extra action and the set up menu	Only the basic spreadsheet will work (i.e. the spreadsheet will automatically rank teams by score and tier, detect ties, and show if events are completed)
Third party web content	Scoresheet generation, awards slideshows, changing events, the set up dialogue, and the individual event sheets all use third party content to show forms and instructions on how to use the action. For example, the awards slideshow generator uses custom web content to display a form that provides a place to enter in the template slideshow, as well as other settings.	The aforementioned actions will not work. Any command not listed in the cell to the left will still run, as well as all quick actions.

The scripts need a lot of permissions because there is no way to selectively ask for permissions. For example, the slideshow generator needs to only create slideshows and read a slideshow from a url, but the permission used (deleting, editing, and creating slideshows) is the only option for scripts involving slides. If you’re worried about the permissions, you can view the source code from the spreadsheet through Extensions -> App Script.

After giving access to the script, follow the instructions in the sidebar to use the extra action. If no sidebar appears (for histograms, duosmium exports, tiebreaking, and quick actions), it will run automatically. Google App Scripts run slowly (and this code isn’t optimized for speed), so be patient for scripts to run. Wait at least a minute before reloading the page and assuming the script failed. Scripts provide updates as they progress and will alert you when finished.

Extra Actions

After giving permissions, you can use the extra actions included with the spreadsheet by navigating to the Extra Actions tab at the top. A description of each is given here:



Generate Awards Ceremony Slideshow

This action creates a simple slideshow from the results in the overall tab from a template slideshow given by the user. **This template slideshow needs to be made in a very specific way: there can be as many slides as desired, but the textbox for the event name should be the first element created on each slide, followed by the textboxes for the first place team, second place team, and so on until the last place on the slideshow. Additionally, any desired animations should be added to the template slide.** After this point, you can add anything.

To create a template, start with an empty slide, and then create the textbox for the event name. Then, create a textbox for the first place team, format it, and copy it as many times as needed. **The contents of the textbox do not matter**; in the templates, they exist for clarity and serve no direct purpose to the code. Or, you can simply copy the template slides and make any desired edits. As a reminder, after the first few textboxes are added (enough to hold the name of the event and all placing teams), you can add anything you want to the slide. Make sure the animations are correct before using your template slide.

Enter in the number of places that should be displayed in the slideshow (3 for a slideshow displaying the top 3 teams, etc.) to the first blank in the sidebar, labelled “Places to be displayed:”. By default, the slideshow will be created using the [top 3 template in the folder](#). In the second blank, labelled format, type the desired format for the names of winning teams. Use the key phrases (see the sidebar) to create the format. Anywhere any of these keys appears will be replaced with its meaning.

Key	Meaning
#N#	Place number (1, 2, 3, etc.)
#P#	Place (1st, 2nd, 3rd, 4th, etc.)
#TN#	Team Number
#NAME#	Team Name (School + Suffix)
#SCHOOL #	Name of the school
#SUFFIX#	The suffix of the team (A/B/C/Blue/Varsity/etc.)

#STATE#	The state that the team is from
---------	---------------------------------

For example, if the winning team was C11, Adlai E. Stevenson H.S., and the custom format was #P#. #TN# - #NAME#, then the slideshow would show “1st. C11 - Adlai E. Stevenson H.S.”. By default (if 3 is left blank), #P# place: #TN# - #NAME# is used as the format.

In the third blank, labelled “Template slideshow URL:”, enter the url (from the top of the browser) to your template slideshow. You can also choose to customize the slide for overall results, being able to have a special template slide and/or format, a different number of overall winners in slides, and separate slides for each winner (see [the produced example](#)).

See [the example](#) and the [settings used](#) for one possible result of this extra action.

If you see any exclamation marks (!), it means that there has been some kind of error, most likely due to a tie or not having sufficient teams. Resolve any issues, and then try again.

Generate Scoresheet

Creates a [spreadsheet in the format of the national tournament](#) that shows the results of the tournament. You can choose whether the scoresheet is in the order of team number or in order of rank.

Generate Histograms

Creates a folder in Google Drive with a histogram of the scores for each event in the spreadsheet. The folder is placed in the parent folder of the spreadsheet, which will be told to you through an alert.

Export to Duosmium

Exports the information in the spreadsheet to a new spreadsheet in the format of Duosmium results’ score submissions. It will need some manual filling because some information like location are not in the scoring spreadsheet but are required in the Duosmium spreadsheet. The only fields that need to be filled manually are in the first sheet.

Break Ties in Team Scores

Using the [official team tiebreaker \(number of 1sts, number of 2nds, ...\)](#), this script breaks any existing ties in the team scores in the “Overall” sheet. If there is more than a 10 way tie, the script should still break it, but the fractional penalties will be rational numbers like 11/17 and may not fit in the space for penalties in the scoresheets.

This script works iteratively, first checking all ties for the number of 1sts, and then moving on the 2nds only after checking all ties for the number of 1sts. For example, if there is a 3 way tie, with 1 team having 2 1st places and the other two having 1, the script will first the break the tie by adding a 0.1 penalty to both of the teams with only 1 gold medal, and then later come back and break this tie, adding an extra 0.01 penalty to the team with fewer second place finishes. This means that the script will somewhat frequently toast that it cannot break a tie using nth places, which is the normal behavior and means that it will come back and check the number of n+1th places later. After completion, there should be no cells marked as red unless there is a true tie (i.e. same number of every place).

Quick Commands

These actions skip the settings page, using sensible defaults (sorted by rank scoresheets and my top 3 slide template with a normal format) in case the sidebar settings pages are not working. This is most commonly due to settings from your organization. Because

my organization seems to block the button submission from the sidebars, these commands exist to maintain spreadsheet functionality at the cost of some customizability if the sidebars are blocked.

Set Up

Some of the extra actions are not listed under the Extra Actions menu, instead being under the menu “Set Up.” These scripts are intended to be used before you start using the spreadsheet (i.e. while you are setting it up) but are available at any time if needed.

Start Set Up

You should run this immediately upon creating a copy of the spreadsheet. It provides a nice interface to fill in some basic tournament settings into and allows you to change events if desired. Once you run it once, there’s no need to run it again. To change events after this point, use the [Change Events](#) action.

Change Events

Changes the events in the spreadsheet to the events listed in the input. Each line should contain only one line, and there should be no lines that are empty. This can also change the number of events, with support of theoretically infinite events, though anything over 40 seems impractical to run. However many events are provided to the input is how many events will be in the spreadsheet. Typing the phrase * before the event name will cause the event to automatically be trialed. Similarly, typing LOW- (exactly like this) before the event name will change the scoring to be lowest score wins. If you are using both, then the * should go before LOW- (i.e. *LOW-).

You cannot name an event any of the following names: Settings, Team List, Overall, Trialed Events, or Event Supervisors. Additionally, Change Events will preserve any information in the Trialed Events, Event Supervisors, and event sheets unless the event has been marked as a trial in the sheet and not a trial in the events list, in which case the event will be changed to not being a trial event. For this reason, avoid using Change Events after entering in data for specific events to the spreadsheet whenever possible

Generate Individual Events Spreadsheets

Since there is no way to share only specific sheets with others, a potential danger of using this spreadsheet is that anyone with access can edit any scores for any event. As a result, this method separates each event into a separate spreadsheet that is shared only with the event supervisor(s) for that event (if none are listed, no spreadsheet will be created), allowing event supervisors to access scores for only their event and protecting the main copy of the spreadsheet from being edited by any event supervisors. This also supports either the [default spreadsheet](#) or a custom spreadsheet like the [official scoresheets](#) for each event, though custom sheets will need to have ranges named (see below). If you would like to create an individual spreadsheet but don’t have an event supervisor email to put in column B, you can use the email of the owner of the main spreadsheet. The notification email is sent even while sharing a file you created with yourself.

This is the most difficult script to use in the spreadsheet, so please read carefully and follow the steps below to avoid making mistakes. Please consult the example folder or contact lastlegume@gmail.com if at any time you are confused about what to do:

1. In the Event Supervisors sheet, add the email(s) of the event supervisors of each event to column B. If there are multiple event supervisors, separate emails with commas (spaces do not matter). If you do not add an email, no spreadsheet will be created for that event.

2. If you want a custom spreadsheet such as the [official scoresheets](#), paste a link to the spreadsheet into column C.
3. Run the script. This is not the end of the process.
4. Event supervisors will receive the default Drive notification (see below except with your email) stating that you have shared a spreadsheet with them with no message. It is your responsibility to tell them what to do with the spreadsheet that is shared with them.

Last Legume shared a spreadsheet



Last Legume (lastlegume@gmail.com) has invited you to **edit** the following spreadsheet:

Disease Detectives Scores ☆

Last Legume is the owner

Last edited by Last Legume 13 seconds ago

Open

5. For all events that you are creating an individual spreadsheet for, navigate to their sheet in the main spreadsheet and go to B5 (or any other cell that says #REF!). This should show a window asking you to connect spreadsheets. Click “Allow access.” You will have to repeat this for every individual spreadsheet that was created before they will function.

You need to connect these spreadsheets. The first time the destination spreadsheet pulls data from a new source spreadsheet, permission is needed to be granted.

[Learn more](#)

Allow access

6. Go to the root folder of the main spreadsheet, and find the folder named “[Name] Individual Event Spreadsheets.” Inside the folder will be every individual event spreadsheet.
7. For each spreadsheet that is still using the [default sheet](#), you will have to connect the spreadsheet to the main spreadsheet, which can be done by clicking on a cell that says “#REF!” such as A5. After doing this, the spreadsheet is ready for use. Event supervisors can change the event to be scored as the lowest score winning and mark the event as complete from their spreadsheet. As a result, there is no need to share the main copy with any event supervisors.
8. For each custom spreadsheet, you will still have to connect the spreadsheets, but there is more to be done.

- a. In the custom spreadsheet, the range containing the scores and tiers must be named. To name a range, go to Data -> Named Ranges. Select the area where the scores will appear, and name this exactly *Scores*. Select the area where the tiers will appear, and name this exactly *Tiers*. If there are no tiers in the event, simply delete the importrange cell (C5) from the sheet for the event in the main sheet.
- b. [Optional] In the custom spreadsheet, find where the team names should go, and copy in =importrange([url], [namedrange]). [url] should be replaced with the url of the main spreadsheet, while [namedrange] should be replaced with the appropriate named range from the main spreadsheet, listed below:

SchoolNames 'Team List'!B2:B251		A	B	C	D	
	1	Team Number	School name	Suffix (i.e. State		
	2	C0	hydrogen	0	LA	
	3	C1	helium	0	NV	
States 'Team List'!D2:D251	4	C2	lithium	0	VA	
	5	C3	beryllium	0	NV	
	6	C4	boron	0	LA	
Suffixes 'Team List'!C2:C251	7	C5	carbon	0	MN	
	8	C6	nitrogen	0	TN	
	9	C7	oxygen	0	IN	
TeamNumbers 'Team List'!A2:A251	10	C8	fluorine	0	SD	
	11	C9	neon	0	KS	
	12	C10	sodium	0	KS	
Teams Overall!A2:A251	13	C11	magnesium	0	IA	
	14	C12	aluminium	0	IA	
	15	C13	silicon	0	IL	
TeamsRaw 'Team List'!A2:C251	16	C14	phosphorus	0	OK	
	17	C15	sulfur	0	NE	
	18	C16	chlorine	0	NE	

Left to right: the list of named ranges, the Team List sheet, and the Teams named range, along with the header that is not included in the range.

- i. In general, you should just import *Teams*, which is the team number - team name and the format used by the default spreadsheets. *TeamsRaw* includes the team number, school name, and suffix/team name, which is the format used by the official scoresheets such as [this Helicopter sheet](#) (see cell B9: =IMPORTRANGE("https://docs.google.com/spreadsheets/d/1q8YHVXv7oyOxN1ZtPQ6BtAVD1tesAby-WVBLS4V3w4w/", "TeamsRaw")). The other named ranges are provided in case they are needed for other custom spreadsheets, and more named ranges can always be created.
9. At this point, everything should be done. Now, when event supervisors add scores to their individual sheets, they will be read into the main copy, which compartmentalizes the scores in a way not possible with just a single spreadsheet.

Resize Columns to Fit Team Names

As the name states, runs the autosizecolumn Apps Script method on the first column of the sheets where the team names appear. For some reason, it appears to be limited on maximum size, so it will not expand columns fully, but it makes teams more visible at least. Please wait a moment for the visualize to update after the script finishes, as Sheets do not update instantly graphically.

Quick Commands

Same reason as the other [quick commands](#). The two provided are to change the events to the 25-26 slate for division B or division C. If you want to add or remove events such as trial events, please use the [Change Events](#) command.

Example

The example folder is provided to make it more clear how to use the spreadsheet. The last event is marked as a trial event to demonstrate that the spreadsheet supports trial events, and a few random events are marked as trials to demonstrate that this feature can be used for autodropping or planned drops like in the Texas state tournament. Scores were generated completely randomly, and ties were broken using the built-in tie breaking script. Everything other than the spreadsheet was automatically generated using the “Extra Actions” tab in the top. However, some of the files were renamed for clarity.

Settings used

[Awards slideshow](#)

Basic Settings

Places to be displayed:

3

Format:

#P#: #TN# - #NAME#

Template slideshow URL:

https://docs.google.com/presen

Overall Slide Customization

☒ Customize overall slide

☒ Use separate slides for each overall team winner:

Number of overall places to be displayed:

5

Overall slide template URL:

https://docs.google.com/presen

Format for overall results:

#P# place!: #TN# - #NAME#

The URLs are the [T3 template](#) and [T1 template](#) respectively

Changelog

v1.4.0

- added new set up dialogue to help start using the spreadsheet
 - settings now uses date picker for date in both set up and spreadsheet
- styled all custom sidebars with CSS
- updated documentation
 - includes a new description of each permission used, what it's used for, and what happens if the permission is denied
- separated set up commands from extra actions in menu
- updated quick commands
- pale blue indicator added to the trialed events to show what is not being counted towards team scores
- designed new overall spreadsheet formula using indirect that is the same for every cell
- updated the change events script to move sheets if they already exist, meaning that events can be added to any place after scores have already been added
- change events preserves trial and event supervisor information
- slide generator now supports multiple template slides that it cycles between and a special slide for overall results
- slide generator can place each team in the overall results on a separate slide with a custom format for the overall slides
- overall slides can have a different number of teams than normal events
- added the ability to automatically break team ties using the National tiebreaker
- added automatic resizing method to fit team names
- support for any number of tiers and a fix to the bug where an empty value for tier was treated as tier 0 (now treats an empty cell as tier 1)
 - this is still susceptible to floating point errors, so if there are scores that are different by a factor of 10^9 in the same tier, then the program could fail to rank them properly. But if scores differ by a billion, then there's probably something wrong with the method of scoring
- addition of a new event supervisors sheet
 - added the ability to enter in event supervisor emails and create spreadsheets for each event and share with event supervisors so that event supervisors can only access their own event
 - data from individual spreadsheets can automatically be read in
 - supports either the default spreadsheet or a custom spreadsheet like the official scoresheets for each event (custom spreadsheets require certain ranges to be named as stated in the documentation)
- Added error messages to various methods
- Added validation to extra actions that protect from accidental movements of sheets
- Various efficiency increases to scripts, hopefully shortening run time
- Disabled buttons after use when necessary to prevent problematic double clicking
- Various other bug fixes

v1.3.1 (December 2024)

- Rearranged sheet format to have highest or lowest score toggle at the top
- Added status indicators for each event
- Added alerts that indicate if there are events that are not complete
- Fixed bug in duosmium export with lowercase letters
- Added support for PO as participation, making direct copy pasting from the official score sheets easier.

- Switched to using a more intelligent ranking formula that handles any score (even those above 10^6) with tiers from 1-10

v1.2.1 (December 2024)

- Added more comprehensive protections that occur during the change events action
- More efficient ranked score sheet generation
- Updated events to 2025 event slate
- Change events action can now automatically trial events and set them to lowest score wins
- Change events now resizes first column to fit team names
- Added extra tab - quick commands - with sensible defaults for the commands that require sidebars in the case that the sidebars are not working (usually due to a setting from your administrator)
- First slide of slideshow now says the tournament name
- Added more notifications of progress for long extra actions
- Many bug fixes

v1.1.1 (January 2024)

- Added support for adding and removing events with the change events action
- Added automatic Duosmium export

V1.0.0 (August 2023)

- Released to the public