

Jan 25, 2022

National Invitational Tournament Survey

This is a reminder to share with your team the survey at <https://forms.gle/H8Xrcm4p9sVg2Am87> regarding the running and content of the various events. Your feedback on these events are critical for us and we will be using these as we plan this year's National Tournament. We will also be sharing this feedback with the National Event Supervisors.

Test and Answers Posted

The test, answers, and histograms for all of the events from the 2021-2022 National Invitational Tournament have now been posted at <https://drive.google.com/drive/folders/1GyVv6gRfdmnv6GjUIQ9cV2AN19GHMqle> For Green Generation B, Rocks and Minerals B, Dynamic Planet C, and Ornithology C, two sets of test and key are posted. The set marked as "original" is the one which students took during the morning session of Block 1. Due to some technical difficulties from Codebusters, the tests for these four events were not responsive for some teams while letting other teams continue to take the test. Because of this, the test from the other Division was modified as the replacement test for these events and these are marked as "replacement." For Codebusters, a new test was created for both divisions and all 4 sets of test and key are posted. We hope that this will provide additional materials for students to study from.

Feedback and Raw Scores for Non-Written Events

For Codebusters B/C and events with video submissions, the raw scores and any feedback will be sent back to the teams in the coming weeks. This is a manual process and we appreciate your understanding and patience.

Clarification on Ranking of Events with Video Submissions

For Build Events, teams that qualified for and competed in Round 2 were ranked using their Zoom call score from tournament day. These teams were guaranteed to be placed ahead of those that did not compete in Round 2. Teams that did not compete in Round 2 were ranked using their video submission scores.

For Hybrid Events, the Device Portion scores for teams that qualified for and competed in Round 2 used the Zoom call score from tournament day. The Device Portion scores for teams that did not compete in Round 2 were based on the video submission and these scores were scaled to ensure they are below the Device Portion scores for teams that competed in Round 2. These Device Portion scores were then added to the team's Test Score to become their final overall scores, which was used for ranking.

Jan 21, 2022

2022 National Science Olympiad Escape Room

We have put together an escape room for all Science Olympiad participants across the country. The Escape Room is now available at <http://www.sciolyescaperoom.com/> The first ones to escape and email peterhung@socalscioly.org will receive special 2022 National Science Olympiad swag! Happy Escaping!

Jan 20, 2022

Scoreboards Are Finalized! Congratulations to All Participants!

The scoreboard is now finalized and posted on <https://scilympiad.com/soni2022> by going to Tournament -> Tournament Results. Top 25 C and top 20 B winners in each event will receive medals and the top 25 C and top 20 B schools will be receiving their trophies. We'll be mailing all the medals and trophies for each school to an address specified by the coach. Coaches of these teams should receive an email from us before the end of the day to verify their mailing address.

National Invitational Tournament Survey

Please share with your team members the survey at <https://forms.gle/H8Xrcm4p9sVg2Am87> regarding the running and content of the various events. Your feedback on these events are critical for us and we will be using these as we plan this year's National Tournament. We will also be sharing this feedback with the National Event Supervisors.

2022 National Science Olympiad Escape Room

As mentioned during the Awards Ceremony, we have put together an escape room for all Science Olympiad participants across the country. The Escape Room will be available for you starting tomorrow at 3PM PT. The first ones to escape and email peterhung@socalscioly.org will receive some special 2022 National Science Olympiad swag! Happy Escaping

Graded Tests Are Now Available

The graded tests are now available through Scilympiad. Students can access their tests through <https://scilympiad.com/soni2022> by logging in and clicking on the green "graded tests". Coaches can access their tests from the Head Coach Dashboard -> Tournament Results -> Graded Tests. Over the next week, we'll be sending back any feedback from the various Build Events and the hands-on portion of the Hybrid Events.

Science Olympiad Survey

Students and coaches who are alumni of Science Olympiad: we would love your help to participate in a voluntary 10-minute survey with you rating the impact Science Olympiad has on your STEM interests.

All answers are anonymous and not identified to any student. We appreciate your help with this research. Current students can click on the [link](#). Coaches or volunteers who participated in SO in the past and graduated from high school can click on this [link](#).

Jan 15, 2022

Dear Coaches,

Congratulations everyone for participating in this year's National Invitational Tournament and thank you to all those who joined us for the awards ceremony. For anyone who missed it, the awards ceremony can be watched here: <https://www.youtube.com/watch?v=Fj0b9AGgwDM>
The scoreboards are now available on <https://scilympiad.com/soni2022> Coaches have until Sunday, Jan 16, 2022 at noon PT to submit any score inquiry through the head coach dashboard on <https://scilympiad.com/soni2022> As a reminder, score inquiry is only for clerical issues (e.g. team competed in an event but received a No Show). We are working so teams will be able to see their own tests and scores. We expect this to be available next week and will let coaches know when this is available.

As mentioned during the awards ceremony, we are proud to be partnering with SciOlyID, an online bot to help participants study for the various ID events. Be sure to share <https://sciolyid.org/> with your team and take advantage of this great resource!

Peter

Jan 12, 2022

[Urgent] Student Photo Submission:

As a reminder, for the Awards Ceremony, we'll be posting the name of the winning school and the picture of the participants (The name of the participants will not be shown). For this to work, we ask coaches to provide pictures of their students (preferred vertical image) and upload them here:

https://docs.google.com/forms/d/e/1FAIpQLSdR1glK5PmN_CoTXM9seeb9ytNA_DkDXAmOaYLQDALwxaodzw/viewform?fbclid=IwAR28HHiqHMCW_2-AW9jlacCgl8ZFNBZMBq5CiPDfEyeHIVXBd7qoFywCE8w

Please make sure the file names are in the format of "School name - Student name" before uploading. Note that submitting the photo is not a requirement.

Awards Ceremony

We will be hosting the Awards Ceremony on Saturday, Jan 15, 2022 at 4PM PT. Please note that this is 3 hours later than the original time we announced on Dec 1. The livestream can be watched on the front page of <https://scilympiad.com/soni2022>. Scoreboards will be posted at the conclusion of the Awards Ceremony. Coaches have until Saturday, Jan 15, 2022 at 8 PM PT to submit any inquiry through the head coach dashboard on <https://scilympiad.com/soni2022>.

Codebusters B

During the rerun of Codebusters B on Saturday, the event terminated prematurely for some teams. Due to this, the first 41 minutes of each team's responses will be scored instead of the full 50 minutes. This setup used on Saturday was a brand new integration between Scilympiad and the Toebes web page. We appreciate your patience as we find ways to improve the implementation of running this event online.

Jan 7, 2022

Here are some final reminders.

Tournament Day Question and Contact

If there are questions that need to be resolved immediately, please email peterhung@socalscioly.org. If it is regarding the content of an event as an appeal, please fill an appeal by logging into your Scilympiad head coach dashboard and clicking on the “Online Appeal Form” button. If you don’t receive an answer via email within 30 minutes, please send the email again or ask someone else to send it because it may have been caught by the spam filter.

Students competing from home

As a reminder, students competing at home are *not* allowed to participate in hands-on/lab/build components of an event. They can, however, communicate using Zoom, phone call, Discord, or any other third-party software to communicate with their partners. Please make sure that they start the software for communication before the start of the Scilympiad test and leave it running during the tournament. They should only need to use the voice chat function from that software (Scilympiad has the text-based chat function), so they shouldn’t need to go back and forth between software and Scilympiad. There should be no out of browser time incurred if this is what they’re doing.

Assigning Students to Events

Coaches may continue to assign students to their events until tomorrow morning at 6:50 AM PT.

Events With External Submission/Upload

Parts of all of the following events will require participants to write or draw something on a piece of paper and scan or take a picture to be uploaded as part of the event. Teams may check [this spreadsheet](#) to make sure their submission has been received, but keep in mind that not all receptions are automatic, so it may take some time for the spreadsheet to update. Please feel free to share this spreadsheet with your students.

- Cybersecurity C: the student submits a HackerRank username via Google Forms.
- Experimental Design B/C: certain sections of the test will require the participant to write/draw on a piece of paper. This then will need to be scanned or a picture be taken and uploaded.
- Machine Learning C: the students submit a Kaggle pre-build in the Kaggle competition.
- Run It Code It B/C: Teams submit their file in the [rici.app](#) website.
- Write It CAD It B/C: the CADer shares the file via Onshape.
- Write It Do It B/C: the Doer will have to take a picture of their drawing or scan it and then upload it.

If the submission is not received, please email peterhung@socalscioly.org with the external submission file(s).

Written Portion for Hybrid events

As a reminder, teams that did not qualify for round 2 or did not submit a video for the device portion may still participate in the written portion of the event.

Zoom Links for Events with a Live Round 2

[The spreadsheet here](#) contains Zoom links for the Live Round 2 events. Please note that only teams qualified for the Round 2 should go on these links during their specified time.

Codebusters B/C

The Codebusters B/C will use the integrated Toebes platform. The test will open for the participants to enter their answers 10 minutes after the official start time.

Codebusters C:

- Official Start Time: 8:00 AM PT for students to log into the test
- Timing for the timed question begins at 8:10 AM PT. The rest of the test becomes available at this time.

Codebusters B:

- Official Start Time: 9:10 AM PT for students to log into the test
- Timing for the timed question begins at 9:20 AM PT. The rest of the test becomes available at this time.

The test and the timed question timer will start at the above time regardless of when the student logs into the test.

Machine Learning C

As described in the rules, please email the Kaggle Kernel to scioly.machinelearning@gmail.com with the subject line [SONI 2022] Machine Learning Kaggle Kernel Submission {Team Number}.

Trajectory C - Round 2 Reminder

- Prior to the Zoom meeting, please have the launch area set up.
- Be sure to have the 1m x 1.5m launch area created.
- Please have the 75cm safety line on the track.
- **Distances have changed!**
 - The near target distance will be 3 meters.
 - The far target distance will be 7.5 meters from the launch area and 1.5 meters to the left.
 - The bucket placement will be 6.75 meters from the launch area and 1 meter to the right.

Storm the Castle B - Round 2 Reminder

- Please have a scale ready to mass your masses for the judges. In addition, be sure to have readied any required measuring devices before you log in.

- Please have the launch area marked out in accordance to the rules before logging in.
- Remember that the target distance the students ask for the bucket to be placed must be in increments of 0.5m and the closest distance possible is 0.5m from the launch area.

We hope you and your team will enjoy the tournament tomorrow! We'll be sending more information regarding awards after tomorrow.

Jan 4, 2022

As we approach the tournament this weekend, we understand that conditions are evolving and some teams are facing situations in which some participants may need to be in quarantine on tournament day. We want to remind everyone that the safety of everyone must come first.

Since this is an Invitational tournament, we are going to allow students quarantined in their homes to participate as part of their team under the following conditions:

- they are feeling sufficiently well;
- the coach has documented parental permission;
- their partner is available to still compete from school if the quarantined student is scheduled to compete in Build Event, Laboratory/Hands-On Event, or Hybrid event.

Jan 3, 2022

Safety First

With the recent changes in the pandemic across the country, we want to remind everyone that the safety of everyone comes first. Please make sure to follow all school guidance and local regulations.

Self-Schedule for Round 2 opens today (For teams qualifying for Round 2)

As a reminder, self-schedule for teams qualified for Round 2 will open on today, Jan 3, at 3PM PT and will end on Thursday, Jan 6, 2022 at 3 PM PT. Coaches can see the available time slots now and sign up later today by logging onto their head coach dashboard on <https://scilympiad.com/soni2022> then clicking on Self-scheduled Event Signup. Please only sign up if your team has qualified for Round 2.

As a reminder, the participants for Round 2 do not have to be same as those in the video in Round 1, however all the participants for Round 1 and Round 2 must be on the official roster of 15 for that team.

For the hybrid event, be sure to check the duration of the written portion by clicking on “Events” on <https://scilympiad.com/soni2022/Info/Tournaments> before signing up for the self-scheduled time slots.

Wright Stuff C and Electric Wright Stuff B

To help alleviate some of the challenges with the schedule for Wright Stuff C and Electric Wright Stuff B, the time slots for these two events have been updated to:

Electric Wright Stuff B: 7:00 AM PT - 3:00 PM PT

Wright Stuff C: 7:30 AM PT - 3:00 PM PT

Coaches Reminder

Please make sure the following are completed:

- Add students to the pool and provide your students their Login ID. (See full instruction from Communique 1)
- Assign students to the team (required even if your school only has 1 team)
- Assign students their events (assign to event)
- Make sure the Principal verification form is signed and uploaded.
- Make sure each participant has their release signed by their parents/guardians
- Check your student pool to make sure the “release submitted” and “registered” columns are both checked. Students who do not log in will show as not registered until they do. Check the releases received by going to Coaches Dashboard/Verification/Checklist/Releases.
- When all the releases and principal verifications are signed, the Head Coach must go to Coaches Dashboard -> Verification/Checklist -> Head Coach Verification and certify the items are completed.

Student Reminder

Please make sure each of the students have completed following prior to tournament:

- Review the section on resources in Communique 1 to ensure they are only using allowed materials like printed items.
- Go to <https://scilympiad.com/soni2022> and click on "Student Login" -> "Take online tests using Login ID" then log in using the login ID provided by your coach.
- The first time you log in, you'll be asked to create a password. It's important to remember this password since you'll need it on tournament day
- Once logged in, they should see each of the events they are assigned to. If they don't see the name of the event they are supposed to be doing, the coach should verify that the student is properly assigned to the event.

On Tournament day, go to "Student Login" -> "Take online tests using Login ID" and log in using the Login ID and password. If students forget their password, the head coach can reset the password (Head Coach Dashboard -> Student/Team/Event Assignment.)

- Be sure to log into the event a few minutes before the time starts.

Jan 1, 2022

Happy New Year! We're a week away from the tournament! Please see the follow updates:

Follow us on Social Media

Follow us on Facebook (2022 Science Olympiad National Tournament), Instagram (@scienceolympiad2022), and Twitter (@scioly2022) to get the latest information.

Past Communiques

If you missed any of the previous emails sent to the coaches and/or if your team signed up after we started emailing coaches with information, please note that all communiques are posted at https://docs.google.com/document/d/1W__EUdhXbnepd6mb9PiUlqVgModBIOFR2r0qGANit6s/edit#

Student Photo Submission:

As a reminder, for the Awards Ceremony, we'll be posting the name of the winning school and the picture of the participants (The name of the participants will not be shown). For this to work, we ask coaches to provide pictures of their students (preferred vertical image) and upload them here:

https://docs.google.com/forms/d/e/1FAIpQLSdR1gIK5PmN_CoTXM9seeb9ytNA_DkDXAmOaYLQDALwxaodzw/viewform?fbclid=IwAR28HHiqHMCW_2-AW9jlaeCgl8ZFNBMq5CiPdFeyeHIVXBd7qoFywCE8w

Please make sure the file names are in the format of "School name - Student name" before uploading. Note that submitting the photo is not a requirement.

Experimental Design B/C Material Clarifications:

- A roll of any type of tape will work as long as it is at least sticky on one side.
- The 3 sticks of gum should be identical.
- The 5 pieces of 8.5" x 11" paper should be typical printer paper.
- Any type of battery can be used as long as they're the same type.
- The pencil can be either sharpened or unsharpened.
- All 5 leaves should be from the same tree. It can also come from other plants.
- The water can be in any cup as long as there's approximately 8 oz of water in it.
- The rubber band can be of any size.
- The foil should be 1ft x 1ft.

Round 2 Hands On Live Demonstration:

The Event Supervisors have reviewed the video submissions. The link below has the list of teams that have submitted videos and those qualifying for Round 2: Live Zoom Call Demonstration:

Division B:

<https://docs.google.com/spreadsheets/d/12diySQ2eoRup3ofxj-LXpfd9NloQed0DsjeCp02XsZ0/e#gid=0>

Division C:

<https://docs.google.com/spreadsheets/d/12diySQ2eoRup3ofxj-LXpfd9NloQed0DsjeCp02XsZ0/edit#gid=268274753>

Self-schedule for teams qualified for Round 2 will open on Mon, Jan 3, 2022 at 3PM PT on <https://scilympiad.com/soni2022> and will end on Thursday, Jan 6, 2022 at 3 PM PT. All available time slots will be between 8AM PT and 2PM PT on Sat, Jan 8, 2022. Please only sign up if your team has qualified for Round 2.

Please submit all design logs, flight logs, ASL, etc. at <https://forms.gle/yjvu4pq5cXgrsZkZ6> by Wednesday, Jan 5, 2022, 11:59 PM PT for Round 2. The log submitted for Round 2 can be the same as those submitted for Round 1 if the log is still applicable.

As a reminder from the Dec 13th Update (Communique 3), teams are expected to use the same device for Round 2 as they competed with during Round 1. Note that devices may be repaired and/or modified within reason (i.e. the device is not completely rebuilt and no Ship of Theseus) from its original form, but not use a completely different device. The exception to this rule is Bridge where teams may build a new device. In addition, for the flight events, if only Plane A was used in round 1, Plane B may be used in round 2, given that in round 2, Plane A is used before Plane B. If either or both planes from Round 1 were lost, the missing plane(s) may be replaced with a new one(s).

Bridge B/C:

- As you're preparing for the upcoming live testing through zoom, please watch this video to see our example of how to demonstrate the various construction parameters for your device and the testing apparatus:
<https://drive.google.com/file/d/18hmCZEed5nYE2288chORACGAQtPqzOI/view?usp=sharing>
- Please review the following scoring checklist. We will be using this checklist for the live video round 2 of the National invitational Tournament on Jan 8:
<https://scilympiad.com/data/org/soni2022/public/2022%20Bridges%20Scoring%20Sheet%20for%20SatMeetsV1.pdf>

Detector Building C:

- Included in the email to the head coaches of teams advancing to Round 2 of Detector Building C is the link to instructions for making the salt solutions for Jan 8.
- The coach of the team will be responsible for preparing the water samples based on the information provided by the Tournament Director.
- The coach of the team will also provide the distilled water for the participants to rinse their probes between tests.
- Coaches are encouraged to provide the saltwater in 4oz souffle cups with approximately 7 cm mouth with an approximate depth of 5 cm with a removable lid.

Electric Wright Stuff B:

- Event will be run as if in person, except Participants will be performing measurements to confirm compliance with construction rules
 - Participants should be prepared to measure the planes properly, with metric ruler and digital scale. If a gauge is used to confirm measurements, it will be measured.
 - Make sure the nominal characteristics of the capacitor and charger batteries are visible or can be made easily and then reassembled if needed.
 - Team will need to provide evidence of ceiling height measurement.
- Flight logs should be submitted by Wednesday prior to the event for evaluation
- The order of event will follow the Electric Wright Stuff checklist, except items 5.b, 5.n and 6.c will be determined after completion of flying. So:
 - Introduce yourselves.
 - Review general characteristics of the plane(s).
 - Measure the plane(s).
 - Review power system.
 - Demonstrate capacitor discharged, charger should be in coaches/adults hands.
 - Review flight log if incomplete.
 - Hand charger to Participants to start pre-flight.
 - Participants fly their planes.
 - Review checklist with Participants
- Videographer
 - Supervisors will need to see measurements clearly, both ends of the linear measurement equipment.
 - Make sure we can hear the Participants while flying.
 - Follow the plane throughout the flight, particularly launch and landing.
 - Stay clear of the plane so as not to interfere with the flight. If it comes at you, move away from its path SLOWLY!

Gravity Vehicle C:

- Have a metric ruler and a meter stick or tape ready for measuring.
- Please be ready to mark your Target Point as needed. Target point will be at intervals of 0.50 m, anywhere from 2.00 m to 5.00 m, and will be announced when they 'check-in' on the video call.
 - Prior to starting their event time, teams should put down the tape for the Start Line and mark the Start Point, defined in rule 6.b.
- Track measurements should show Starting Point and Target Point. Target Distance will be told to teams when they 'check-in' on the video call. Dowel placed (perpendicular from the imaginary center line connecting the Start and Target Point) 1.00 m from the start line should be shown.
- The camera should be able to cover the Participants working on the vehicle, setting up the track (if needed), and the remainder of the run.
- Distance from Measurement Point to Target Point must clearly be shown on camera for the Event Supervisors.
- Stop watches are not to be shown on camera but Run Time will be asked.

It's About Time C:

- Team's device should be completely set up in the location where you intend to test it **before** you log on to the Zoom call. Participants will **not** receive 5 minutes to set up their device, but will get 90 seconds before each trial (including the first) to fine-tune their setup.
- Make sure that your signal is clearly visible over a camera - any writing should be bold, consider coloring the water (if applicable), etc.
- If possible, we would like two cameras - one easily movable to pan around the device and one stationary to focus on the signal.

Mission Possible B:

- Have a metric ruler and meter stick ready for measuring.
- It helps if the camera is easily moved to look at small parts of the device.
- If multiple ASLs are submitted for Round 2, only the first submission will be used.
- Do not allow the Participants to see a watch or timer during the run. Participants should not have a timer or watch on while running the device.
- Participants should only touch the device when it has stopped, or something has happened to prevent the next action from working.
- Remember that time begins when the team member drops the ball, not when the participant hears the word "go."
- Remember that the time ends when the original marble is "struck" on its "at rest" position to initiate the final task, not when the marble stops rolling.
- If a touch involves the next-to-last-action, no points will be awarded for the final task and the time will be 180 seconds.

Mousetrap Vehicle B:

- Have a metric ruler and a meter stick or tape ready for measuring.
- Demonstrated Vehicle measurements must include width, length, Measurement Point height from floor and distance from all other parts of the vehicle.
- Track measurements should show Starting Point, 1m line, and Target Point.
- The camera should be able to cover the Participants working on the vehicle, the Measurement Point passing the 1m tape, and the remainder of the run.
- Distance from Measurement Point to Target Point must clearly be shown on camera for the Event Supervisors.
- Stop watches are not to be shown on camera but the Run Time will be asked.

Ping Pong Parachute B/C:

Please make sure to have the following items available on the day of competition:

- Ruler to measure fin distance
- Soda bottle label for rocket
- Bottle cap

Sounds of Music B:

Please review the Regional competition rules to prepare the subjects for the written exam and practice live instrument testing ahead of time (e.g. obtaining good sound quality and using <https://www.pascioly.org/sounds/>) to assist prompt completion of the device testing.

Storm the Castle B:

- Please have everything ready for the competition. Be sure to have a 5 gallon bucket if you are planning on going for the bonus. You can get them from any hardware store or ask your art teachers if they have any. They are relatively inexpensive.
- Plan on discussing your device and taking measurements at the beginning of our video together. Be ready to show the course is measured properly.
- Please put tape down or some kind of perimeter to show that you are outside the 75 cm area.
- Remember the launch area is 1 meter by 1 meters (parallel to the launch)

Trajectory C:

- Please have everything ready for the competition. Be sure to have a 5 gallon bucket if you are planning on going for the bonus. You can get them from any hardware store or ask your art teachers if they have any. They are relatively inexpensive.
- Plan on discussing your device and taking measurements at the beginning of our video together. Be ready to show the course is measured properly.
- Please put tape down or some kind of perimeter to show that you are outside the 75 cm area.
- Remember the launch area is 1 meter by 1.5 meters (parallel to the launch)

Wifi Lab C:

- Participants should log into the zoom call with the transmitter already setup. The competition will begin with determining the connection threshold, so make sure that Participants have the 3.1 cm monopole antenna ready to go. The Event Supervisors will walk all teams through the process.

Wright Stuff C:

- The event will utilize multiple zoom rooms. Participants will be asked to move between rooms during the competition. Check-in and measurements will be done first in one room and Participants will move to another room to conduct their flights.
- To complete check-in, Participants will need to have all of the equipment needed to verify dimensions and mass of their airplane and rubber motors. If a measurement aid is used, the dimensions of it will need to be verified prior to using it to measure the airplane. For measuring the mass of the airplane, please ensure that the scale can weigh the airplane easily without the airplane touching the table. It is recommended that you use a spacer on the scale (ex: paper cup) and zero the scale so the measurement doesn't include the mass of the spacer. If needed, the Participants may have an assistant (coach/parent) hold the device during the measurement while the Participants measure the device and show the camera.

- For the flight portion, the event will be run very similar to how it would be run in-person. The Event Supervisors will instruct the Participants to retrieve their motors and begin the 3-minute pre-flight. We recommend that the Participants (or their assistants) have a timer running in-person to make checking “how much time left” easier for the Participants. When launching the airplane, Participants should announce a count-down of “3...2...1... LAUNCH” loud enough that the Event Supervisors can hear it over zoom. Additionally, please loudly announce when the flight ends so that the Event Supervisors can time the flight accurately. We recommend that the Participants or their assistants time the flight independently with an unofficial stop-watch in-person. The Event Supervisors’ times will be used for scoring, but in the event of technical difficulties the Event Supervisors may want to compare their times with the time measured in-person. We ask that the person holding the camera make their best effort to keep the video feed stable and smooth. We do not need the camera to zoom in on the airplane during the flight; a full-room view is fine.

Dec 25, 2021

We're 2 weeks before the tournaments. Please find the relevant information for Machines Learning C (Medal Only), Food Science B, and Experimental Design B/C below.

Machine Learning C (Medal Only):

Machine Learning C has a Pre-Tournament Task that must be completed by the teams before the competition begins. You can find the competition portal:

<https://www.kaggle.com/t/f2b36ad8ecff4033b924ca9f03fbfa5d>

Experimental Design B/C:

The following is the list of materials to be gathered BEFORE tournament day. Once the competitor starts their event on Jan 8, they will see a subset of these materials that they're allowed to use for their experiment along with a topic area:

- 1 roll of tape
- 1 pair of scissors
- 3 sticks of gum
- 5 pieces of 8.5"x11" paper
- 10 quarters
- 3 identical batteries
- 1 pencil
- 5 leaves from any tree
- 1 plastic bag
- 1 paper towel
- 1 cup of water
- 1 rubber band
- 1 square foot of tin foil

Food Science B - Hands on Portion

The instructions for making the solutions for Food Science B have now been emailed to the head coach of the team. If the team coach of the team did not receive the instructions, please let me know.

Dec 18, 2021

Video Submission:

As a reminder, the video submission deadline is tonight, Sat, Dec 18, 11:59 PM PT. Teams can continue to submit videos after the deadline but they will not be eligible for consideration for Round 2 - live video testing.

Student Photo Submission:

For the Awards Ceremony, we'll be posting the name of the winning school and the picture of the participants (The name of the participants will not be shown). For this to work, we ask coaches to provide pictures of their students (preferred vertical image) and upload them here: https://docs.google.com/forms/d/e/1FAIpQLSdR1glK5PmN_CoTXM9seeb9ytNA_DkDXAmOaYLQDALwxaodzw/viewform?fbclid=IwAR28HHiqHMCW_2-AW9jlaeCgl8ZFNBZMBq5CiPDfEyeHIVXBd7qoFywCE8w

Please make sure the file names are in the format of "School name - Student name" before uploading. Note that submitting the photo is not a requirement.

Releases and Principal Verification:

The releases and principal verification do not have to be completed by Dec 18th. However, for the team to compete in the National Invitational Tournament, all of these forms must be completed by Wed, Jan 5, 11:59 PM PT. While the rosters are not required to be signed by 12/18, the students that have built and demonstrated the devices in the Dec 18th video submission must be part of the 15 member team list on the submitted roster signed by the principal.

Dec 13, 2021 Update

Video Submission Deadline

As a reminder, the deadline for video submission is 11:59 PM Sat, Dec 18.

Video Submission for Teams without Team Number

Teams without team numbers can still submit their videos by selecting “other” for school/team name and typing in their school name and team name.

Detector Building C - Hands on Portion

The instructions for making the solutions for Detector Building have now been emailed to the head coach of the team. If the team coach of the team did not receive the instructions, please let me know.

Sounds of Music B - Hands of Portion

The video submission link for Sounds of Music was not working previously. It is fixed now.

Location for Hands on Device

Because the tournament is a Satellite tournament, teams are expected to compete from their school. We rely on the school and coach to determine the venue that they can use that fits the school policies and allows the school to sign the release.

Video Submission for Devices

Teams are expected to submit a video of their device that is recorded for the National Invitational Tournament and not reuse videos for other tournaments. In the case that a team qualifies for round 2 of the video submission, they are expected to use the same device for both rounds. The only exception for this is for Bridge B/C.

Competitors should be supervised by someone approved by the coach for the hands-on portion. If the competitor is unable, the google form may be submitted on behalf of the competitor by an adult from the team.

Principal Certification Form is Blank

If the principal certification is blank, it is likely due to not having added students to the team. To do this, follow the steps below:

1. Log into the head coach dashboard
2. Click on “Student/Team/Event Assignment”
3. Click on “Student to Teams”
4. Select the students and add them to the team

Dec 4, 2021 Update

Video Submission:

The video submission links are now posted in the [Event Modification Document](#).

Wright Stuff C and Electric Wright Stuff B Ceiling Height Multiplier:

Please note the updated ceiling height multipliers for Wright Stuff C and Electric Wright Stuff B as posted in the [Event Modification Document](#).

Digital Structure B/C - SkyCiv License:

A SkyCiv is needed for each team that wants to submit a structure for Digital Structures B/C. If you need a license, you can purchase it using our bulk discount [here](#) for \$45 instead of \$50.

Dec 1, 2021 Update

As we approach the National Invitational, below is some important information for you and your team. Please note that all updates (communiques) can be viewed on

<https://scilympiad.com/soni2022>

Format:

The National Invitational is a Satellite tournament. This means that students should be competing at their school site. As always, as teams are preparing for the competition and for the competition, please make sure everyone is following local and federal laws and health guidelines.

Registering with your State:

In following National Science Olympiad's membership policy, teams participating in Invitationals must be a registered member of the state and national Science Olympiad program. In order for your team to participate at the Invitational, your team must be registered with your State Organization at least two days prior to the Invitational.

Events:

We will be running the events with modifications detailed in this document:

https://docs.google.com/document/d/10boj-A4GzAscoRNGlw_g-b0d2qhxtogC2GOEI2QLMu4.

Students should read the modifications pertaining to their events in its entirety.

Schedule:

We will be using the schedule at <https://scilympiad.com/soni2022#schedule>. Please note that for all written events, all teams (excepting teams from Hawaii and Alaska) will participate concurrently; the table shows the starting time of each time block. Some of the earlier time blocks will be repeated later in the day to allow teams in Hawaii and Alaska to participate at a reasonable time.

Adding students to your team:

In order for your team members to compete, the students must be added to the roster on Scilympiad. This is done by going to the Head Coach dashboard and clicking on "Student/Team/Event Assignment." Type in the names and grades of your students. The login ID will be automatically generated for each student and they will be able to log in using the login ID. Please provide your student their login ID, first name, and last name that you entered so they can log in. The login ID, first name, and last name you submit must match what they submit.

Assigning Students to Events:

From the Student/Team/Event Assignment page, click on "Students to Teams" to assign your students to the corresponding team. This step is still needed even if your school only has one team. Once that has been completed, you can click on "Students to Events" to assign events to the students. This step must be done in order for the students to compete on tournament day.

Student Log In:

Prior to the tournament, students should access their account on <https://scilympiad.com/soni2022> by visiting the web page and clicking on the "Student Login" tab, then click "Take online tests using Login ID." If this is their first time, they will need to enter the Login ID, their first name and last name to create the account, then enter their password. After that, they can login using simply their Login ID and password.

Releases:

The release should be signed by the parents/legal guardians of the students but not the students themselves, unless the student is 18 years old or older.

The coach should go to the Head Coach Dashboard, click on "Release Forms," then copy the red link above the green button (NOT the browser URL) and share that link with the parents/guardians of each participant along with the Parent Instructions below.

Please note that each school has a different link. Parents/legal guardians should be creating an account to sign this form and they should not be using their student's account to sign this.

To see the list of participants from your teams with completed releases, go to the Head Coach Dashboard, click on "Verifications/Checklist," and click on "Releases." If the parents/legal guardians spell their student's name the same way you did, the system will automatically put a checkmark for "Release Submitted" on the student pool page. However, if they are different (e.g. Bob vs Bobby), you can still manually check the box under "Release Submitted" on the student pool page.

Parent Instructions: Click on the link provided by the coach. Check the upper right of the web page to see if it says your child's name. If it says your child's name, click on their name and click log out. Once logged out, click on the link provided by the coach again. Follow the prompt on the web page to either log in if you have an account already or register as a new member with the role of "Other". If you need to register as a new member follow the instructions on the website page.

Principal Verifications:

From the Student/Team/Event Assignment page, click on "Principal Certification." Once this is printed and signed by the coach and the principal, upload a scanned copy of this and upload it by going to the Head Coach Dashboard and click on "Upload Documents" and choose the Document Type as "Team Roster".

Team Numbers:

All teams that have completed registration (signed up online and payment received) have been assigned a team number. You can see your team numbers by going to the Head Coach Dashboard -> Register/Update Teams and the Team number is in the first column. You can also find them at

https://docs.google.com/spreadsheets/u/2/d/1it6bpUOp0uGnTzX82PpUWv7IVFP676ondUB_0mHDSI4/edit#gid=0

Events with Hands on Components:

Some events with hands-on components will be completed in two rounds. In Round 1, teams will submit a recording of the running of their device by December 18th along with their device performance data. Links for video submissions will be made available starting Dec 4th. Participants are expected to have recorded these videos during the current academic year. Teams are encouraged to demonstrate the dimensions and parameters of their devices when possible in the video. No codewords will be required. Event Supervisors will review the videos of the top devices according to the student-submitted performance data and ensure that the data is correct. Teams with the top devices, based on the reviewed scores, will be invited for Round 2, a live Zoom video call demonstration of their device on the day of the tournament. The coaches of those teams will receive an email on or before January 1, 2022. This list of teams will also be posted on or before January 1, 2022. The top teams' device scores will be based only on the performance of the live demonstration. The remaining teams, as well as the top teams not able to do a live demonstration, will be ranked based on the device performance data they provided with their video, behind teams that participated in the live demonstration.

Resources:

Please note that all resources used must still follow the event rules (e.g. in the form of binders, note sheets, etc.). With the exception of Astronomy, which allows a computer/tablet as resources, notes cannot be in a digital format. We understand the cost and burden on teams to print a new binder, especially for such an early tournament, but we ask that teams follow this rule to be equitable to all teams.

If students are not required to practice social distancing, then only the allowed resources as described in each event's rules apply.

If students are required to practice social distancing, then the COVID rules modifications in the rules manual will apply as summarized below:

If not already allowed, each individual participant can have a personal set of reference materials (e.g., binders, single sheets of paper), calculator, or other academic resource as specified in the specific event rule for use during the competition to facilitate social distancing, isolation, and to prevent resource sharing. Personal sets of resource materials must meet all the criteria established in the specific event rule. Teams can decide how they want to arrange their resources as they best understand the circumstances under which they are competing and what their overall strategy might be. Using Anatomy & Physiology as an example, each partner may choose to have two different sets of notes so Partner A tackles all the muscle questions and Partner B tackles all the skeleton questions.

Awards Ceremony:

We will be hosting an online Awards Ceremony on Saturday, Jan 15, 2022 at 1PM PT. The livestream can be watched on the front page of <https://scilympiad.com/soni2022>.

Tests and Raw Scores:

After the online Awards Ceremony, the tests, answer keys, and your team's raw scores and answers will be made available through Scilympiad. The test, answer key, and a histogram of the scores for each event will also be released to the public shortly after the awards ceremony is over.