



National Science Championship

Guidelines - School Round

About LEAD Championships

LEAD Championships is a collection of national competitions that provide students a platform to showcase their skills while competing with students from across the country.

In addition to the competitions, the platform also provides a rich learning experience to the participants via a series of **masterclasses and workshops** taken by renowned experts.

LEAD Championships 2020 brings to you the **National English Championship** and the **National Science Championship** which will be held 100% **online** in four stages between **16th Nov to 24th Dec**. It is open to all students from Class 3 to Class 8 studying in LEAD partner schools.

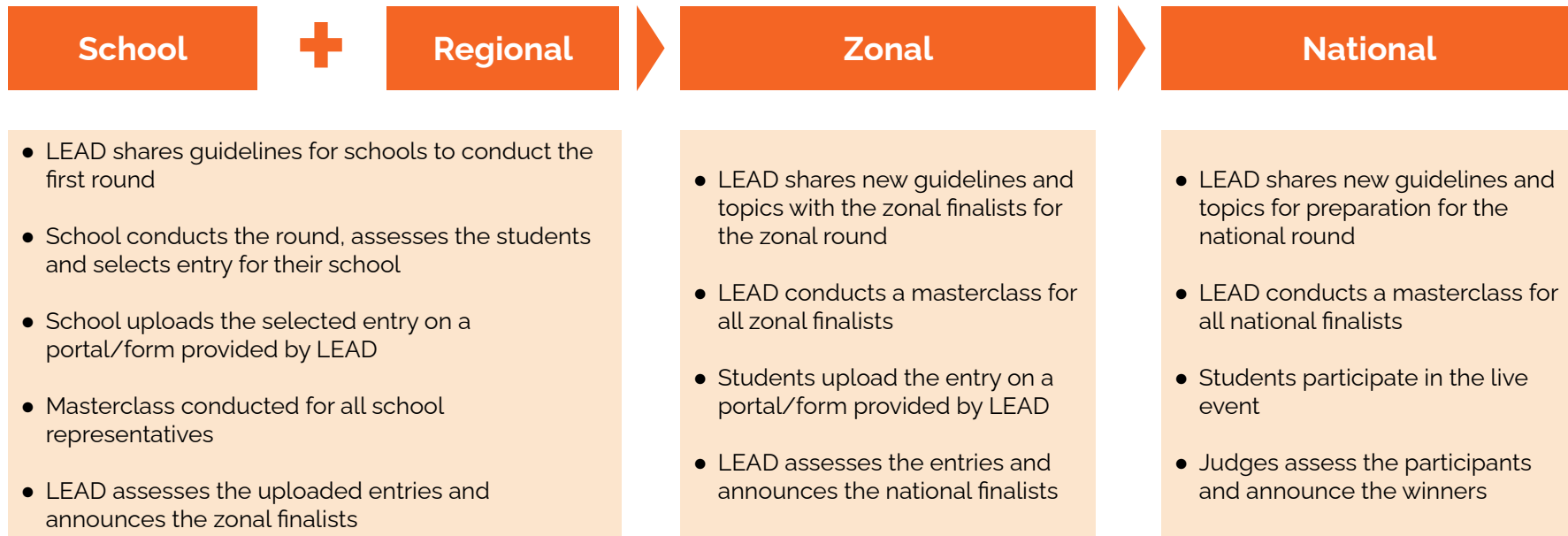


Championship categories

Championship	Category	Skill tested	Group	Type
National Science Championship	Science Project	Learning by doing	Junior (Class 3-5)	Individual
	Science Project	Learning by doing	Senior (Class 6-8)	Individual
	Science Bee	Knowledge	Junior+Senior	Team of 3

Student Journey (Individual events)

Science Project



Student Journey (Team events)

Science Bee



Timelines for School Round

School Round	Sharing of guidelines with schools	9-11 Nov
	Submission of entries by students*	16-27 Nov
	Selection of winners done by schools	23-29 Nov
	Uploading winning entries and sharing winner details with LEAD	29 Nov-1 Dec
	Masterclass for all school representatives	1-5 Dec

* Please maintain a list of participants in this school round. We will ask for it as we proceed to the next round.

Rules of the LEAD Championships

1. Students can participate in more than one category but they can not represent schools in multiple categories.
 2. Entries submitted in the incorrect format will be disqualified.
 3. Entries will not be allowed once the deadline has passed.
 4. For students selected in Regionals, the decision of LEAD School will be final and will not be subjected to any change.
 5. Teachers and Parents shall not give any hints or clues to the students. It is important that only students are completing the entries.
 6. Replacement of any participant of a student is not allowed after the shortlist is uploaded.
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Competition categories and format

Science Project:

- Individual
- Participants will be given topics, after which they will be expected to prepare a document on a specific topic.
- PDF or Word file or Image upload

Science Bee:

- Team, timed
 - Participants will be given general/current topics to prepare which are grade appropriate
 - Students will take an online quiz
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Individual Category

Science Project

Preparation needed by School

Category	# of teachers for co-ordination with students for submission of entries	# of teachers as judges for Project (Science Teachers)	Format of entry	Infrastructure needed by Students	Infrastructure needed by Teachers
Science Project	2 (1 for Class 3 to 5; 1 for Class 6 to 8)	2	Written document	Mobile/Laptop with camera Internet	Mobile/Laptop Internet

- **Participants: Class 3 to 5 and Class 6 to 8**
 - Explain category to the students:
 - Select the topic from the list
 - Think about what type of experiment do you want to do
 - Perform the experiment
 - Complete the template. Shared on next page. Please share it with the students.
 - Pick a date by when you want students to share the document.
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Template for Science Project

Name: _____ School: _____ Class: _____ Section: _____	
Title of the project	
Question: What are you trying to find out?	
Prediction: What do you think will happen?	
Materials: What do you need for the experiment?	
Procedure: What steps did you follow to conduct the experiment? Please share photos of your experiment.	
Observation: What did you observe happened?	
Conclusion: What can you conclude based on the observation?	
Describe importance of your project in the real world .	

Topics/Ideas for Science Project

List of topics for Science Projects for students to conduct experiments:

Class 3 to 5	Class 6 to 8
<ul style="list-style-type: none">• Light• Heat• Sound• Electricity• Water• Matter• Simple machines	<ul style="list-style-type: none">• Electricity• Force• Recycle• Disaster management• Soil• Pollution• Light



Where will students submit the entry

Based on what is easy for the judges and students, entry can be uploaded at:

Whatsapp	Email
<ul style="list-style-type: none">• Parents can share the completed document and photos with the teacher via whatsapp.• Parents should share the document by the deadline.• Documents after the deadline should not be accepted.	<ul style="list-style-type: none">• Parents can share the completed document and photos with the teacher via email.• Parents should share the document by the deadline.• Documents after the deadline should not be accepted.

Please note: We are suggesting these. They are not mandatory. If there is any other way that works for your school, please follow that method.

How to shortlist entries

Please choose 1 winner from Class 3 to 5 and 1 winner from Class 6 to 8. Use the following rubric to shortlist:

Parameters	1 mark	2 marks	3 marks	4 marks	5 marks
Question & Prediction	Student doesn't state the question and prediction clearly	Student states the question with some clarity and but doesn't state the prediction clearly	Student states the question clearly and doesn't state the prediction clearly	Student states the question clearly and states the prediction with some clarity	Student states the question and prediction clearly
Materials used	Student did not select the correct material to perform the experiment.	50% of the materials were correctly picked for the experiment.	75% of the materials were correctly picked for the experiment.	90% of the materials were correctly picked for the experiment.	100% of the materials were correctly picked for the experiment.

How to shortlist entries Contd.

Please choose 1 winner from all the entries. Use the rubric below to assess:

Parameters	1 mark	2 marks	3 marks	4 marks	5 marks
Procedure followed	Student states the procedure with no details about the experiment.	Student states the procedure with very little detail about the experiment.	Student states the procedure with some details about the experiment.	Student states the procedure with sufficient details about the experiment with some details missing.	Student states the procedure with sufficient details about the experiment with no missing details.
Conclusion & Connection to real world	No conclusion was included in the report and no connection to real world	No conclusion was included in the report and shows little effort to make connection to real world	Conclusion includes what was learned from the experiment with some effort to show connection to real world	Conclusion includes whether the results supported the prediction and had made sufficient connection to real world	Conclusion includes whether the results supported the prediction, what was learned from the experiment, and had made sufficient connection to real world

Where to upload the winning entry?

Please choose **ONE** winner from Class 3 to 5 and **ONE** winner from Class 6 to 8. The winners will move to the next round.

LEAD School will share a link to upload the entry. The form will have the following fields:

1. Details of school and details of winner
1. Information on total participants in the school
2. Option to either share the:
 - Upload the single word document with images
 - Upload single pdf of the document with images
 - Upload single image of the document or zipped folder if there are multiple images

Choice will be schools based on ease of use.

Team Category

Science Bee

Preparation needed by School

Category	# of teachers for co-ordination with students for submission of quiz	# of teachers as judges	Format of entry	Infrastructure needed by Students	Infrastructure needed by Teachers
Science Bee	3; 1 for each class group (Class 3-4, 5-6, 7-8)	3; 1 for each class group (Class 3-4, 5-6, 7-8)	Online quiz	Mobile/Laptop Internet	Mobile/Laptop Internet

- **Participants: Class 3 to 8**
 - Explain category to the students:
 - List of topics will be given
 - The students will take a quiz within specified time.
 - LEAD School will give a window to take the quiz. We will give atleast 1 week to prepare.
 - Separate quizzes for Class 3-4, Class 5-6, and Class 7-8
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Topics for Quiz Preparation by Students

Class 3 - 4	Class 5 - 6	Class 7 - 8
States of matter	Organ system and body movements	Electricity
Atmosphere	Simple machines	Cells and its organelles
Heat	Energy and its sources	Microorganisms
Light	Disaster management	Weather and climate
Organ systems	Components of food	Universe
Types of forces	Parts of plants	Waste management
Weather and climate	Motion and measurement	Metals and non-metals

Where will students take the quiz

- LEAD School will share the link to a portal to take the quiz on 18th Nov
- The link will be available for limited number of days to take the quiz. After that link will be deactivated.
- Students will click on the link to take the quiz.
- The students will take a quiz within specified time.
- Schools will receive **score with time taken** to complete the quiz for each student.

Special instructions:

- Students can not retake the quiz.
 - Students will need to finish the quiz in the single sitting.
 - Students should complete the quiz on their own without any help
 - LEAD School will share a championship code with the school which will be needed to access the quiz
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How to shortlist the winning team

Please choose **ONE** winner from each class group, this means:

- 1 winner from Class 3-4
- 1 winner from Class 5-6 (or from class 3-4)
- 1 winner from Class 7-8 (or from class 3-6)

The 3 winners will be the team that will represent the school in the competition

Selection criteria for winners:

- Highest score in each class group
- In case of a tie, the students who took less time will qualify as a winner

This 3-member team will move to the next round. 1 team per school.

Where to upload the details of the winning team?

Please choose **ONE** team as a winner. They will move to the next round.

LEAD School will share a form to upload the entry. The form will have the following fields:

1. Details of School
2. Information on total participants in the school
3. Details of team representing the school



Thank you

*For any queries, please reach out to your
LEAD representative*