

# JUDGES' ORIENTATION 2024

*Welcome!*

Your time is *much* appreciated!



# QRSTF Goals

- To provide an enjoyable learning experience for students
- To encourage students to extend their scientific knowledge, skills and value set
- To provide an opportunity for students to communicate their understanding to a greater scientific community
- To support the Ontario Science and Technology Curriculum through inquiry-based learning



# QRSTF

The QRSTF is a **regional** fair. Student projects at this fair have come from the geographic area of Hastings and Prince Edward Counties. They have been referred from:

- School fairs in our area
- High school science classes or clubs
- The home school community

# Beyond the QRSTF

- 5 students from grade 7-12 are selected, based on Canada Wide Science Fair criteria, to go onto the Canada Wide Science Fair
- We have had excellent results at the national level. We attribute this to the support of many individuals and organizations as well as the youth who show their enthusiasm for science.

# Your Role As a Judge

Our judges are a vital part of providing a positive and rewarding scientific experience to our participants. Although your primary role as a judge is to evaluate it is also important to:

- Listen intently to participants – encourage them to explain their work thoroughly.
- Engage participants in scientific discussion
- Provide positive constructive feedback
- Encourage students to continue to pursue scientific inquiry in some capacity
- Display welcoming body language. Use a warm friendly voice.



# Judging Groups

- QRSTF Awards
  - First Round Judging: choose 1<sup>st</sup> in group of 5 or 6 (9am to 11:30)
  - Second Round Judging: To determine Best in Grade (12:30 to 1:30)
  - Third Round Judging: to Select Best in Division (1pm to 2:30 pm)
- Special Awards Judging: e.g. Astronomy Award (9am to 2 pm).  
Judges will report their results on orange sheets turned in at the office.
- Canada Wide Judging: Best 5 students, grades 7 to 12. (9am to 2:30 pm). Results to the office on an orange sheet.

# First Round Judging Schedule

- **8:00 – 8:15** – You will be greeted at the main doors of Centennial Secondary School and directed to the Auditorium.
- **8:15 – 8:30** – You will pick up judges' envelope and name tag at entrance to the Auditorium and proceed to your **assigned seat**. You will meet your **partner** there. Preview the envelope contents. Coffee!!
- **8:30 – 9:00** – Chair's remarks & continue preview
- **9:00 – 10:30** – First Round of Judging – Introduce yourselves to all of your students first and hand out Good Communicator interview forms - 1 per student.



# First Round Judging Schedule

- **10:30 – 10:55** – You will return to the Library to discuss project placements and complete Ranking sheet (**lime green**) Medal Count slip (**light blue**) and Project feedback form (white)
- **11:00** Submit the Ranking Sheet and the Medal Count slip to the QRSTF committee office in the Library. You will get the needed medals/ribbons and the Medal Count Slip back.
- **11:00 – 11:20** You will hand out Participation Certificates, placements (ribbons and medals) and debrief students using Project feedback forms.
- **11:20 - 11:30** You will fill out QRSTF feedback forms and return all materials. At this time, you have completed the judging process for Round 1 judging.
- **11:30 – 12:30** Cafeteria is open. Bring your own lunch. Public viewing begins.

# Ranking Sheet



## Quinte Regional Science and Technology Fair Judging Teams Project Assignments – Record

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	Project Title	Rank
11401	How Does a Hovercraft Work?	
11402	The Swimming Secrets of Duck Feet	
11403	Let's Go Fly a Kite	
11404	Inside Critters – A Study of Household Insects	
11405	Small Engine Carbon Capture	

# 1<sup>st</sup> Round Medal Count Form

## Judge's 1<sup>st</sup> Round Medal Count Form

Rank	Student 1 Name	Student 2 Name	Project Title	Circle # of medals Required
1				0
2				1 or 2
3				1 or 2
4				
5				
6				

# Project Feedback Form



To be presented to students when informing them of the judging results.

Project Name: \_\_\_\_\_

What I (we) liked about this project- Its strengths.

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Recommendations:

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Judged By: \_\_\_\_\_

\_\_\_\_\_

December 2018

2023

Judge's Feedback to QRSTF Committee Form



In an effort to continue to improve the Fair, we would like to get your comments on this year's science fair. We constantly strive to improve the Quinte Regional Science and Technology Fair experience for both the students and the judges and appreciate and encourage your feedback. Categories and judging procedures and criteria are reviewed annually.

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# First Round Judging Groups

- **Grade Level**
  - 4 through 12
- **Project Types**
  - Experiment, Case Study, Innovation (each type is equally valid and should be considered as such)
- **All Topics are eligible and equal in value and judged against each other.**
- **The emphasis is on process and communication.**

# Experiments

- **Compare different things**
  - Efficiency of various light bulbs
  - Effect of sunlight on fabric types
  
- **Examine the effect of a change in some factor**
  - Effect of daylight length on plant growth
  - Effect of temperature on cyanoacrylate glue



# Studies

- **Collect and analyze information**
  - Loon habitats
  - Meteors and human history
  - Age of airliners and crash probabilities



# Innovations

- **Develop new devices**
  - Biodegradable golf tees
  - A voice controlled faucet
  - Binocular robotic vision





# Ranking vs Grading

- Your evaluative role is to rank the projects 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, Honourable Mention.
- The judging form is to be used mostly as a guide for your ranking.
- When two projects are very close, then the judging form can be used to grade them by assigning marks as indicated on the form for different levels of competence.
- Consult the chief judge if there is difficulty in making a decision.  
*There are no ties for 1st.*

# Judging Form



Project Number \_\_\_\_\_ Project Title \_\_\_\_\_

<b>Part A: Scientific Thinking</b>		<b>Mark: ____ / 50</b>
<b>Experiment</b>	<b>Innovation</b>	<b>Study</b>
<b>Level 1 Mark Range 26 to 30</b>		
Duplicate a known experiment to confirm previous findings	Build models (devices) to duplicate existing technology.	Study existing printed material related to the basic issue.
<b>Level 2 Mark Range 31 to 35</b>		
Extend a known experiment through modification of procedures, data gathering, and application.	Make improvements to or demonstrate new applications for existing technological systems or equipment and justify them.	Study material collected through a compilation of existing data and through personal observations. Display attempts to address a specific issue.
<b>Level 3 Mark Range 36 to 41</b>		
Devise and carry out an original experiment. Identify and control some of the significant variables. Carry out an analysis using graphs or simple statistics.	Design and build innovative technology or provide adaptations to existing technology that will have human benefit and/or economic applications.	Carry out a study based on observations and literary research illustrating various options for dealing with a relevant issue. Include appropriate analysis (arithmetic, statistical, or graphical) of some significant variable(s).
<b>Level 4 Mark Range 42 to 50</b>		
Devise and carry out original experimental research which attempts to control or investigate most significant variables. Include statistical analysis in the treatment of data.	Integrate several technologies, inventions or designs and construct an innovative technological system that will have human and/or commercial benefit.	Correlate information from a variety of significant sources which may illustrate cause and effect or original solutions to current problems through synthesis. Identify significant variable(s) with an in-depth statistical analysis of data.

# Judging Form Part 2

Part B: Creativity and Originality				Mark: _____ / 20
Level 1 (10 to 11)	Level 2 (12 to 14)	Level 3 (14 to 15)	Level 4 (16 to 20)	
Simple design with little student input. A textbook /internet type project.	Some creativity in a project of fair to good design. Topic is a common one.	Imaginative project, well thought out. Some creativity in design or use of materials.	Highly original approach, showing much resourcefulness and creativity in design use of equipment or analysis.	

Part C: Communication				Total Mark: _____ / 30
The level is based on four elements: visual display, oral presentation, project report with background research and logbook.				
Level 1 (15 to 17)	Level 2 (18 to 20)	Level 3 (21 to 24)	Level 4 (25 to 30)	
Most or all of the four elements are simple or incomplete. There is little evidence of attention to effective communication. In a pair project, one member may have dominated the presentation.	Some of the four elements are simple, or incomplete, but there is evidence of student attention to communication. In a pair project, one member may have made a stronger contribution to the presentation.	All four elements are complete and demonstrate attention to detail. The communication components are each well thought out and executed. In a pair project, both members made an equitable contribution to the presentation.	All 4 elements are complete and exceed age/grade expectations. The visual display is logical and well presented. The project report and logbook are informative and clearly written. The bibliography goes beyond web-based articles. The oral presentation is clear, logical, enthusiastic and contributed to equally in a pair project.	

Submit Judging Forms to the Main Desk in the Judges' Headquarters after completing your ranking. **These forms are not to be given to students.** To provide feedback to students use the Project Feedback form.

**Total Score: \_\_\_\_\_ /100**

# Additional Information

- If you have difficulty locating a project or participant please report to the info desk and they can direct you.
- Any questions concerning judging procedures can be directed to the Chief judge.
- If you are unable to come to an agreement about placing in your category please confer with the Chief judge.
- Any concerns you may have about a project must be taken up with the Chief judge (please do not discuss them with the participant).

# Additional Information

- If you must cancel out, please call, text or email Christopher Spencer: 613-919-8013, or [cspencer.qrstf@gmail.com](mailto:cspencer.qrstf@gmail.com)
- Please declare a conflict of interest if any student is either related to you or has been instructed by you. A reassignment will occur.
- This slide show will be posted at [qrstf.ca](http://qrstf.ca) for your reference.

Thank you!

We sincerely appreciate your participation and commitment.

