

SCIENCE FAIRS

What To Do

When To Do It

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What Is A Science Fair?

- An excellent opportunity for students to investigate THEIR scientific ideas
- A chance to test and practice THEIR use of the scientific method
- A chance to ignite a passion for the study of science

Why Should A Student Do A Science Fair Project?

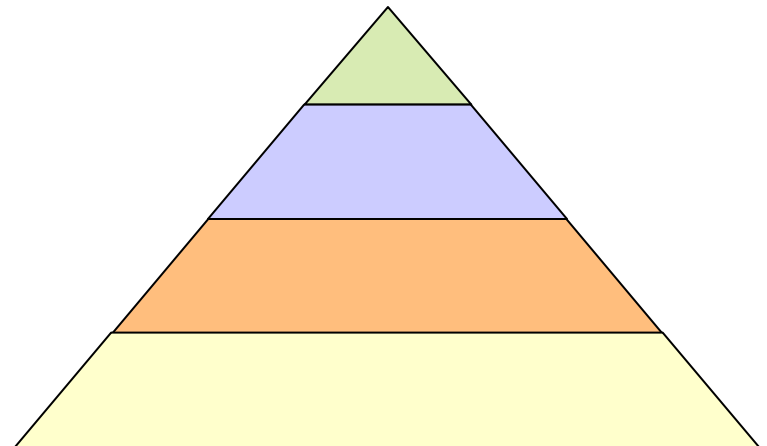
- Fabulous growth opportunity
 - Public speaking skills
 - Scientific inquiry
- Scholarship and award money
 - \$500,000 of scholarship money
- Travel opportunities
 - Canada-wide Science Fair
 - International Science Fairs



BECAUSE IT IS FUN!

The Science Fair Pyramid

- Classroom fair → start of Feb
- School fair → end of Feb
- School District #23 and #67 Fair → 1st wk March
- Central Okanagan Regional Fair → start of April
- Canada Wide Science Fair → 3rd week May
- International Fair → vary
 - » Taiwan
 - » Australia
 - » Japan



Unit Timelines



- Week of January 4 → introduce science fair unit
 - Use powerpoint...show examples of board, topics, etc
 - Co-creating criteria for behaviour during unit
 - Co-creating criteria and performance standards
 - Reading a Science Journal (lesson on literacy in Science)
 - One library day (spend one day in library looking at journals)
 - By Wednesday, January 13th have students hand in proposal of procedure for approval
- Week of Jan 11 → Scientific Method
 - Hypothesis
 - Experiment procedures
 - Safety concerns and rules (permission forms for human participation, etc)

Unit Timelines



- Week of January 18 → Data tables and Graphing
 - Variables, controls, trials
 - Students start collecting data
 - By January 25th students need to have all data collected
- Week of January 25th → Statistics and using computers with data
 - Excel use of data
 - Making tables with data
 - Graphing data (use means, not each trial)
 - Standard Deviation (grade 8 +)
- Week of February 1st → Putting together the backboard
 - Boarding all sections
 - Backboard layout

Unit Timelines

- Week of February 8th → Report writing
 - Various sections of a scientific report
 - Abstract
 - Hypothesis
 - Background (research)
 - Equipment
 - Procedure
 - Data (table and graph)
 - Conclusion
 - Future Directions
 - Acknowledgements
 - Bibliography



Parts Of A Project

- 3 Main Parts to any Project
 - The Report
 - The Backboard
 - The Presentation

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Must Haves

- Projects and Students
- Mentors
- Ethics Approved If Required
- Location for Your Fair
- Judges
- Association with your District and Regional Level Fairs



Why Should You Do It?

- Hopefully You've Heard A Few Reasons Which Make Sense To You.
- If you have ANY questions, concerns (or compliments)...e-mail Raja. He'll be more than happy to help.
- Good Luck!