





2025 Earl Grey School

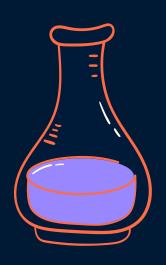
Science Fair



Information Package + Planning Guide



- SCIENCE FAIR REQUIREMENTS
- CALENDER TIMELINE AND IMPORTANT DATES
- EVALUATION SAMPLE SHEETS
- PLANNING GUIDES
- REGISTRATION FORM TO BE
 RETURNED BY JANUARY 27TH, 2025





Science Fair Requirements

- 1. Decide whether you are working alone or with a partner. Remember that it is sometimes difficult to get together with someone else. Remember that you may have differing ideas. Is it best to work alone?
- 2. Choose a topic of interest.
- 3. Complete and submit contract to Mr. Lowe by January 27, 2025.
- 4. Check the timeline and plan out your project.
 - Experimental projects involve testing a hypothesis under controlled conditions using the Scientific Method.
 - Non-experimental/research projects include surveys, model construction, computer programming, and engineering design.
- 5. Begin your log book. This is a scientific diary. It includes dated journal entries describing progress, thoughts and reflections, problems and concerns. It also includes all plans, observations, and rough notes. A binder, folder or box works well.
- 6. Plan your experiment. How much time will you need? When will you need to begin? Save the last-minute stress by starting early.
- 7. Research background information. For example, if you are doing a plant experiment, you may want to research Photosynthesis. If you are doing an electricity experiment, you may want to research Ben Franklin or Thomas Edison. (Gather one page of background information, in point or paragraph form, IN YOUR OWN WORDS).
- 8. Organize your information and design your trifold display. (Large trifolds for Grade 4-6 will be available in the office for a cost of \$15. Grades 1-3 are required to purchase their own trifolds which can be found at most dollar stores or craft stores).
- 9. Plan and rehearse your oral presentation see if friends or family can be your audience! Remember to speak clearly and make eye contact!
- 10. Have fun!

JANUARY 2025									
Sun	Mon	Tue	Wed	Thu	Fri	Sat			
29	30	31	1	2	3	4			
5	6	7	8	9	10	11			
12	13	14	15	16	17	18			
19	20	21	22	23	24	25			
26	REGISTRATION FORMS DUE	28 c	29 ONDUCT EXPE	30 RIMENTS	31	1			

FEBRUARY 2025										
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16	17	18 collect	19 AND ORGAN	20 IZE DATA	21	22				
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MARCH 2025									
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	APRIL 2025										
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6	DIV. 1 SCIENCE FAIR	DIV. 2 SCIENCE FAIR	9	10	11	12					
13	14 / 1	115	16	17	18	19					
20	21	22	23	24	25	26					
27	28	29	30	1	2	3					

EG Science Fair Judging Tally Sheet Grades 1-4

Grades 1-4 Project:	a 100					fo 5 4 3 2	ease use fite flowing Scale: excelent good satisfactory weak
Student Name(s):				Parolini 	-	1	not present
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Background Information Relevant background research Good use of resources Understanding subject matter	0		2	3	4	5	
Planning and Organization IF EXPERIMENTAL: scientific process was used; process and variables are understood. IF NON-EXPERIMENTAL: logical and complete organization of subject information.	0	1	2	3	4	5	
3. <u>Design and Presentation</u> - Display is neat, attractive and free of errors - Project is imaginative and creative - Understandable and easy to read	0	1	2	3	4	5	
4. Oral Presentation - Introduction and conclusion given - Questions answered effectively - Clear use of voice and good expression	0	1	2	3	4	5	
What was good about this project?							
and the second of the second o	L. III. N	45m	5.0			de	
What could be improved upon for next time?					, -1 -1 -5 -5		
		Silve I			12		4. as 5 fars algosteraj 15 agri p. a. akreŝi

TOTAL SCORE:

/20



Entry No:	Location:
Project Title:	t t
Student Name(s):	

SECTION 1 SUBTOTAL / 50

CALGARY YOUTH SCIENCE FAIR

Elementary Project – Judging Tally Sheet

1. SCIENTIFIC CONTENT (maximum 50 marks)

Complete EITHER 1A - Experimental Project OR 1B - Non-Experimental Project. Circle the score for each statement and note the subtotal on page 2.

Please use the following scale:

- 5 Excellent
- 4 Good
- 3 Satisfactory
- 2 Weak
- 1 Poor
- 0 Not Present

		1 4	100		-01		
1A exp	EXPERIMENTAL PROJECT – an investigation undertaken to test a scientific hypothecerimentation, usually featuring the identification and control of variables.	esis	s u	sir	ng		
PRO	OBLEM/HYPOTHESIS						
1. 2.	The problem/hypothesis was clearly stated	0	1 1	2 :	3 4 3 4	5	
ME	THOD						
3. 4. 5. 6.	Experimental design reflected understanding of the scientific method and underlying scientific principles	0	1	2	3 4	5	
AN	ALYSIS/CONCLUSION						
7. 8. 9. 10.	Observations were clearly summarized in tables/graphs and were consistent with data collected	0	1	2	3 4 3 4 3 4 3 4	5	
	SECTION 1 SUBTOTAL / 5 B. NON-EXPERIMENTAL PROJECT - the collection and analysis of data to reveal evuation of scientific interest.		enc	 ce	of:	a fa	act or
SITI	uation of scientific interest.						
PR	OBLEM/HYPOTHESIS						
1. 7	The topic was clearly stated and provided direction and appropriate scope for the project	0	1	2	3 4	1 5	
ME	ETHOD						
3. 7 4. 7	Evidence of extensive research including reading and contacting knowledgeable people was demonstrated The scientific information presented was accurate The information was effectively gathered, combined and organized Logbook recorded project progress including detailed research notes, contact names and discussions	0	1	2 2	3 4	4 5 4 5 4 5 4 5	
AN	NALYSIS/CONCLUSION						
7. 8. 9.	Key points and concepts of the research topic were identified Problems or issues related to the subject were understood Critical analysis/interpretation of research material was presented A logical conclusion/summary based on the research was reached New ideas were formulated as a result of the research project	0	1 1 1	2 2	3 4	4 5 4 5 4 5 4 5 4 5	

Science Fair Planning Guide - Experimental

Set up a logbook/binder/box to keep track of everything you think and do t can be a coil ring book, a binder, a duo-tang folder, a box, some place to keep Il your "stuff" together)				
ypothesis: What do you think the answer to your question might be? What do but think will happen in your experiment and why do you think this? State facts om past experiences or observations on which you base your hypothesis.				
Hypothesis: What do you think the answer to your question might be? What do you think will happen in your experiment and why do you think this? State facts rom past experiences or observations on which you base your hypothesis.				
Don't change your hypothesis even if experimentation does not support it.				
Materials: List the materials used in your experiment				
Variables: Organize your experiment:				

The things that have an effect on the experiment are called **variables**. There are three kinds of variables that you need to identify in your experiments:

- Controlled or Constant all the things you keep consistent in your experiment
- Manipulated or Independent the variable that changes. You should have only one in your experiment.
- Dependent the outcome or variable that is observed in response to your changing variable.

Repeat the experiment more than once, if possible, to ve	erify your results.
Procedure: Explain the steps needed to conduct your expe	riment.
Example:	

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4.	ale minigation (1911) and	- 15 - span we didn't when sugarial
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Observations – What happened during your experiment? - Should be recorded in your log book. Observations can include photographs, measurements, descriptions, graphs and charts

Example:

or

Day 1	Day 2	Day 3	
drawings	or	data	e i de de la table."

Dec. 1	2							
Dec. 1	4			-	J. J. J.	5870		Miles.
Dec. 1	5				***************************************	•		

Conclusions - This is the answer to your project question. This is what you discovered. Your conclusion should include:

- What happened?
- Why do you think it happened?
- What problems did you encounter?
- What things might have affected the outcome of your experiment?
- If you could do the experiment again, what would you change?
- What did you learn?
- What benefit is knowing what you have discovered? Can you make some real life connections to your experiment?

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Background Information: A brief report outlining any background information relevant to your project.

Example: If you are doing an environmental project, you may wish to explain the Kyoto Protocol. If you are experimenting with batteries, you will need to research how a battery works. Break your research up into 2-4 sub questions. Collect jot note answers. Put the information into your own words.

Bibliography – a list of resources (books, websites, experts) that were used in your project.

Your trifold display should contain all these components, as well as your name and classroom.