

Science Fair Timeline

Student Version

Every student in the Louis Riel Science Program must complete a Science Fair Project.

1. **Experimental projects:** These projects involve testing a hypothesis under controlled conditions using the scientific method. As the researcher, you control several variables, manipulate one variable in a controlled way, and then measure, record and analyze the responding variable, to reach your conclusion.
2. **Innovation projects:** These projects focus on the development and evaluation of innovative devices, models or techniques in technology, engineering or computers. As the researcher, you should demonstrate an understanding of the properties of the materials/methods used, the reasons for choosing them, and the effectiveness of your design. You should test your innovation and modify it if you discover shortcomings during testing.

Visit the website for the Calgary Youth Science Fair: www.cysf.org. This website has a lot of information that will help you choose a project, stay organized and follow the rules.

All of your work **MUST BE RECORDED IN A LOG BOOK**.

This includes dates, research ideas, plans and results.

Some class time will be provided for some parts of this project.

Brainstorm	<ul style="list-style-type: none"> - Start a log book! - Review various resources (books, magazines and websites) to get ideas for your science fair project. Write your initial ideas in your log book. Choose a topic that interests you! 	Due: Nov 17, 2023
Write a proposal	<ul style="list-style-type: none"> - Your proposal must be approved by your science teacher - Includes: Division, Topic(s), Title, Question, Hypothesis, Research and Sources of information. 	Nov 23, 2023
Make a plan	<ul style="list-style-type: none"> - Complete the remainder of the Proposal Form → procedure and plan, safety considerations. - Completed proposals will be signed by parents and teacher 	Final signed copy Due: Nov 30 2023
Get started!	<ul style="list-style-type: none"> - Start when your teacher has approved your procedure/plan. - Perform your experiments/create your invention. - Perform multiple trials/make revisions to your design. - Make a conclusion. 	
Prepare a google slides presentation	<ul style="list-style-type: none"> - Create an appealing and informative display for your project. Be sure to follow along with the scientific process. - A slideshow template is provided on Google Classroom. 	Week of Jan 8, 2024
Practice your presentations	<ul style="list-style-type: none"> - Practice presenting your data. - Practice answering questions. 	Week of Jan 8, 2024
Present your Science Fair to your Class	<ul style="list-style-type: none"> -Each student/group must present their Science Fair to the class. -Presentations will be marked and constructive feedback will be provided 	Week of Jan 16, 2024
Present your work	<ul style="list-style-type: none"> - Present your project at the school science fair (if you choose) 	Friday January 26

Teacher Approval : RR

Science Fair Proposal

Student name(s):

Aayan Saini

Experiment or Innovation?

Experiment

Project Question (What problem are you trying to solve? What are you trying to learn?)

How does age affect memory of human beings?

Identify the variables for your project. [For experimental projects only.]

Manipulated variable [Be specific]	Responding variable [Needs to be measurable and specific]	Describe and justify three controlled variables.
✓ Different age groups will be used to examine the performance of their memory.	The level of cognitive ability which can be measured by analyzing the amount of correct answers from the flashcards used to test each individual.	1. The test will be conducted in a similar environment. 2. Each participant will be given the same amount of time. 3. Each participant will be given the same set of flashcards.

How do you plan to test and revise your innovation? [For innovation projects only.]

For all projects:

Hypothesis (If...then...because...)

If the different age groups are used to examine their mental cognitive ability, such as memory, using memory flashcards with limited time to finish them, then the age group between (and including) 10 to 20 will have the most correct because according to scientists, the cognitive are at their peak in the early 20s and gradually start to decline after middle age.

Required materials [be specific and detailed]:

1. Computer
2. Memory Flashcards
3. Different test subjects from each age group
4. Stopwatch
5. Paper
6. Pencil

Procedure [as a numbered list; be specific and detailed; a diagram may need to be included]:

1. Determine who will participate - different test subjects from each age group.
2. Decide the type of test - the test will be given in person
3. Design the test - Memory Flashcards with limited time to finish
4. Distribute the test to all different age groups to collect the responses
5. Analyze the responses - grade them to see which age group has the best memory
6. Write up the results

Safety considerations: (*Your project must meet CYSF guidelines, which are available at cysf.org)

Low Risk

Project Title (be creative):

Down Memory Lane

Things to consider:

Is your experiment safe to perform (for yourself and others)?	<input checked="" type="radio"/> Yes/No
Will you be able to get all the materials/equipment you need for your project?	<input checked="" type="radio"/> Yes/No
Do you have enough time to do your experiment <u>more than once</u> ?	<input checked="" type="radio"/> Yes/No
I have discussed the project idea and the checklist with my parents/guardian and I am willing to commit to following through on this project.	<input checked="" type="radio"/> Yes/No

Reena

[Faint handwritten notes, possibly including "I have discussed..."]



ETHICS AND DUE CARE FORM

Form 2A

CALGARY YOUTH SCIENCE FAIR

This form must be filled in for all projects that involve the use of animals or humans in any manner whatsoever. For details on use of animals and humans in a project see www.cysf.org, Determination of Project Risk - your project needs to meet both our regulations and the national regulations. This form must be sent in before any experimenting begins. Entrants/Coordinator will be contacted once this form has been reviewed.

Exhibitor's Name(s)	Exhibitor 1 Aayan Saini	Exhibitor 2
Exhibitor's Email(s)	mailto:reemamsharwal@gmail.com	
Phone Number(s)	403-389-5359	
School	Louis Riel School	
School Phone Number	403-777-7650	
Coordinator's Name		Coordinator's Email
Exhibit Title		
Grade Level	5	Where will experiments take place? Neighbourhood/Community
Human participants?	<input checked="" type="radio"/> YES <input type="radio"/> NO (circle one)	Animal experiment? <input type="radio"/> YES <input checked="" type="radio"/> NO (circle one) Animal species:
<p>If you circled "yes" for human participants, you must now assess the risk factor of your project. Final determination of risk will be made by CYSF. Read <u>Determination of Project Risk</u> at www.cysf.org, determine if your project is "Low" or "Significant" Risk, then circle one box below.</p>		
<input checked="" type="radio"/> Low Risk	1. Please send this form 2. Please send copy of your survey form (if applicable) 3. Please send copy of your Informed Consent Form 2C (if applicable).	<input type="radio"/> Significant Risk 1. Please send this form 2. Please send Significant Risk Form 2B 3. Please send copy of your survey form (if applicable) 4. Please send copy of Informed Consent Form 2C 5. Please send copy of your Letter of Information.
Purpose of your experiment	To learn how age affects memory of human beings	
Brief description of your experiment	We know how age affects memory of human beings, a test will be given to different age groups. The results will be analyzed to see what age group has the best memory.	

I hereby certify that the information given above is correct and to the best of my knowledge the above project complies with the guidelines for use of human subjects and animals supplied to me by the Society.

Signature of Coordinator
Aayan

Signature of Exhibitor 1
Reem

Signature of Parent of Exhibitor 1

Signature of Scientific Supervisor (if applicable)

Signature of Exhibitor 2

Signature of Parent of Exhibitor 2

Please make sure you have all required signatures and the form is completely filled out before sending!

Email it to: safety@cysf.org.

INFORMED CONSENT FORM 2C



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11/11/23

Ideas for Science Fair!

Does Prime give you more energy than Gatorade?

Does a carrot battery give you more volts and power than a potato battery?

Science fair

If a snail drinks any energy drink, will it go faster?

11/15/23

Notes:

Research

How does age affect memory of human beings?

- "Younger people have better memories because they can retrieve them in higher definition" which was the result of an experiment done by scientists.
- When people grow older, changes occur in their bodies, including their brain. They can't remember certain things like paying a bill, or misplace items.
- Researchers have found that neurons in brains communicate slower, meaning that it would take time to process information, or even try to learn new things.

Research

12/16/23

- As you age, your brain shrinks in size and chances of dementia rises with age. Dementia is memory loss.
- Older people often experience decreased blood flow to the brain, which can impair memory and lead to changes in cognitive skills.

12/25/23

Research

- Hormones and proteins that protect and repair brain cells and stimulate neural growth also decline with age.
 - Processing speed, working memory, and long-term memory are all known to decline steadily as we age.
-

12/26/23

- I made object flashcards to use them with the participants.
 - Started work on presentation as well.
-

12/31/23

- I went to a temple and did the test with 7 people.
- Then I went to the library and did the test with 29 people.
- watched a person's science fair presentation on youtube.

- Added more slides into my presentation.
-

1/1/24

- I made a table with everybody's results and put them in their age group.
 - I made another table to record the average number of words memorized by each age group.
-

1/2/24

- I added a bar graph to record the average number of words memorized by each age group as well.
-

1/3/24

- I went to the library again and tested 5 more people.
- I changed the average for some age groups and added more results into the table.

1/13/24

- I wrote the conclusion in my presentation.
- I also wrote the Application and Extension in my presentation as well.
- I made a slide for the sources of information too.
- I looked at youtube videos on how to make a trifold.

1/14/24

- To discuss my results, I sent an email to the "Alberta Neurologic Center".

10-20		21-30		31-40		41-50	
10	4	25	9	31	7	41	10
10	5	26	9	36	9	44	8
11	8	27	11	37	5	45	9
11	10	27	8	38	7	47	8
13	7	28	7	38	9	48	9
13	10	29	11	39	9	50	7
15	9	29	7				
15	10	30	1				
15	9						
20	7						

Age group	Average
10-20	7.3
21-30	7.7
31-40	8.2
41-50	11.3

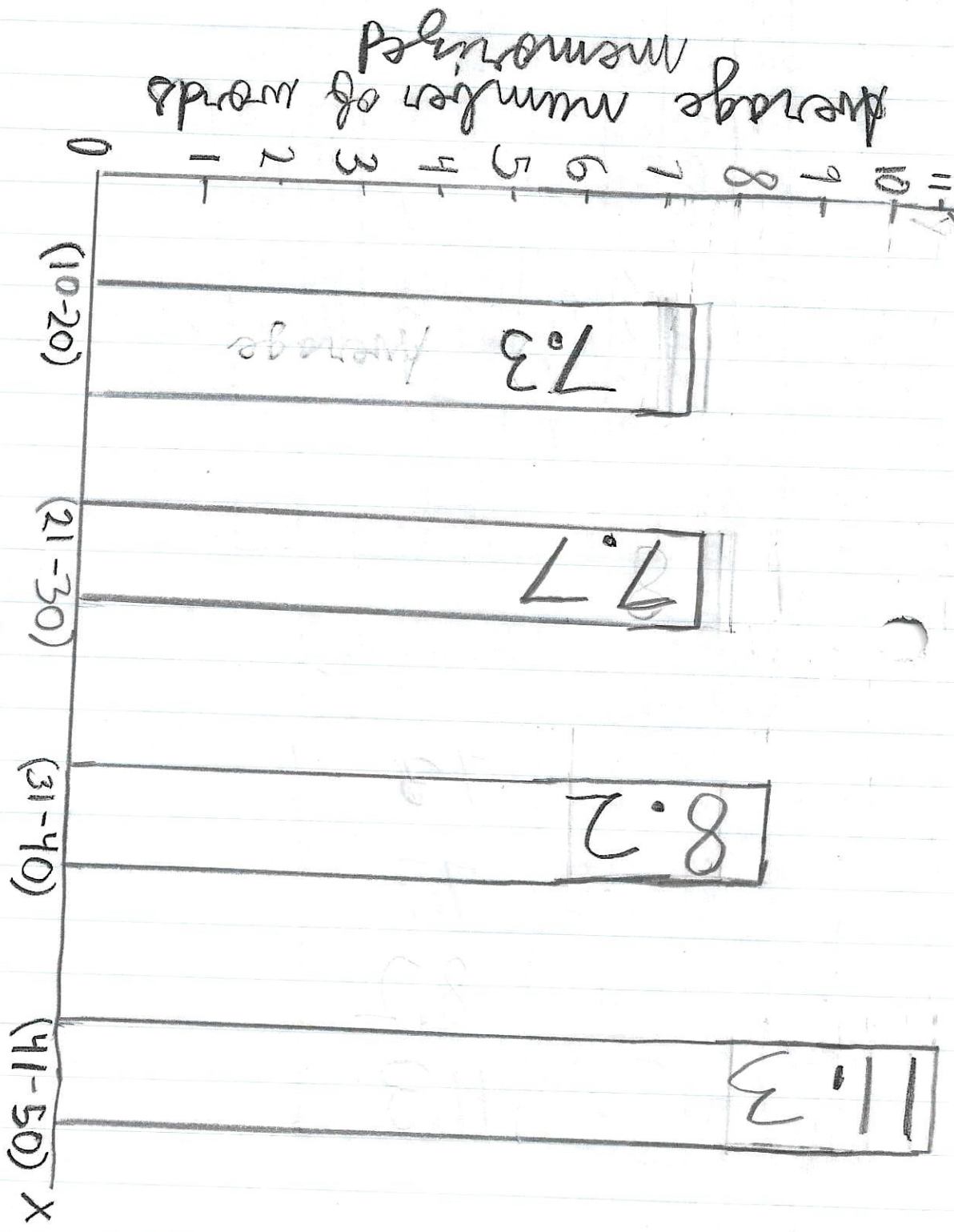
$$10 + 10 + 10 = 30$$

$$9 + 9 = 18$$

$$15$$

72

Age groups



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Review: This project has been reviewed by the Ethics Committee of the Calgary Youth Science Fair Society and has received permission to proceed.	
Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Reena Saini</u> (please print) Signature <u>[Signature]</u> Date <u>03-Jan-2024</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Kuldeep Saini</u> (please print) Signature <u>[Signature]</u> Date <u>03-Jan-2024</u>	
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By signing below, you are agreeing to participate in this study. Name <u>annexa</u> (please print) Signature <u>[Handwritten Signature]</u> Date <u>Dec 31 / 2023</u>	
<p>If this participant is under the age of 18, permission of a parent or guardian is also required:</p> I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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By signing below, you are agreeing to participate in this study. Name <u>Kapil Tanwan</u> (please print) Signature <u>[Signature]</u> Date <u>31/12/2023</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Daniyal Tanwan</u> (please print) Phone <u>403 909 7519</u> Signature <u>[Signature]</u> Date <u>31/12/2023</u>	

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By signing below, you are agreeing to participate in this study. Name <u>Rishika</u> (please print) Signature _____ Date _____ If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Rishika Parmar</u> (please print) Phone _____ Signature <u>Rishika</u> Date _____	

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Signature _____ Date _____	
If this participant is under the age of 18, permission of a parent or guardian is also required:	
I give permission for the person named above to participate in this study.	
Name <u>Adrienne Parmer</u> (please print) Phone _____	
Signature <u>Adrienne</u> Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Sonaksh</u> (please print) Signature <u>Sonaksh</u> Date <u>Dec 31, 2023</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Sonaksh Saini</u> (please print) Phone <u>587-890-7590</u> Signature <u>Aybal</u> Date <u>Dec 31, 2023</u>	

INFORMED CONSENT FORM 2C



CALGARY YOUTH SCIENCE FAIR

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Student Researcher (1): Aayan Saini School: Louis Riel School Phone: 403-777-7650	Student Researcher (2): School: School Phone:
Project Title: Down Memory Lane	
Science Fair Coordinator (Adult Supervisor): Name: Karen Davis Phone: 403-777-7650	
Project Description: People will be asked to look at 12 flashcards randomly from a deck of 48 cards. Each flashcard has a picture and the respective word that describes the picture. The participant will be given one minute to study the flashcards and memorize. They will be then asked to write down all the words they remember in a given amount of time in order to know how age affects memory.	
Your benefits from participating: The participant will get to know how their memory is as well as understand the correlation between age and memory.	
Your risks from participating: The participant might feel that the investigation is tedious and/or be disappointed with their results	
Your time commitment: 5-8 minutes	
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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Pranab Ghosh</u> (please print) Signature <u>[Signature]</u> Date _____	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Sanjeev Kumar</u> (please print) Signature <u><i>Sanjeev</i></u> Date _____ If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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By signing below, you are agreeing to participate in this study. Name <u>Viveet</u> (please print) Signature <u></u> Date _____	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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By signing below, you are agreeing to participate in this study. Name <u>KARIM LAHBACH</u> (please print) Signature <u>[Signature]</u> Date _____	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Aayan Saini</u> (please print) Signature <u>[Signature]</u> Date <u>28/12/2023</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Yuvraj</u> (please print) Signature <u>[Signature]</u> Date <u>Dec 31, 2023</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Yuvraj Saini</u> (please print) Phone <u>587-890-7590</u> Signature <u>[Signature]</u> Date <u>Dec 31, 2023</u>	

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By signing below, you are agreeing to participate in this study. Name <u>Sonya</u> (please print) Signature _____ Date _____	
<p><i>If this participant is under the age of 18, permission of a parent or guardian is also required:</i></p> I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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By signing below, you are agreeing to participate in this study. Name <u>Tayla Nguyen</u> (please print) Signature <u>Tayla</u> Date <u>Jan 3rd 2024</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Dianna Paulsoh</u> (please print) Phone <u>403 612 9079</u> Signature <u>Dianna</u> Date <u>Jan 3rd 2024</u>	

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By signing below, you are agreeing to participate in this study. Name <u>Sharon Anthony</u> (please print) Signature _____ Date _____ If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Melissa</u> (please print) Signature <u>[Signature]</u> Date <u>Jan 3, 2023</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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By signing below, you are agreeing to participate in this study. Name <u>Amy Park</u> (please print) Signature <u>[Signature]</u> Date <u>01/03/2024</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Francisco Lucar</u> (please print) Signature <u>[Handwritten Signature]</u> Date <u>31/12/2023</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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By signing below, you are agreeing to participate in this study. Name <u>Emilie</u> (please print) Signature <u>[Signature]</u> Date _____	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Karen Kay</u> (please print) Phone _____ Signature <u>[Signature]</u> Date _____	

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Withdrawal: Your participation is voluntary, and you have the right to withdraw at any time for any reason. If you wish to do so, please talk to the Science Fair Coordinator/Adult Supervisor.	
Review: This project has been reviewed by the Ethics Committee of the Calgary Youth Science Fair Society and has received permission to proceed.	
Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Milton Sun</u> (please print) Signature <u>[Signature]</u> Date <u>12/31/23</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Chida Sun</u> (please print) Phone <u>937-269-7979</u> Signature <u>[Signature]</u> Date <u>12/31/2023</u>	

INFORMED CONSENT FORM 2C



CALGARY YOUTH SCIENCE FAIR

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Student Researcher (1): Aayan Saini School: Louis Riel School Phone: 403-777-7650	Student Researcher (2): School: School Phone:
Project Title: Down Memory Lane	
Science Fair Coordinator (Adult Supervisor): Name: Karen Davis Phone: 403-777-7650	
Project Description: People will be asked to look at 12 flashcards randomly from a deck of 48 cards. Each flashcard has a picture and the respective word that describes the picture. The participant will be given one minute to study the flashcards and memorize. They will be then asked to write down all the words they remember in a given amount of time in order to know how age affects memory.	
Your benefits from participating: The participant will get to know how their memory is as well as understand the correlation between age and memory.	
Your risks from participating: The participant might feel that the investigation is tedious and/or be disappointed with their results	
Your time commitment: 5-8 minutes	
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Review: This project has been reviewed by the Ethics Committee of the Calgary Youth Science Fair Society and has received permission to proceed.	
Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Chia Sun</u> (please print) Signature <u>[Signature]</u> Date <u>2/31/2023</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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By signing below, you are agreeing to participate in this study. Name <u>Khon heng</u> (please print) Signature <u>[Signature]</u> Date _____	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Science Fair Coordinator (Adult Supervisor): Name: Karen Davis Phone: 403-777-7650	
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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Alex</u> (please print) Signature _____ Date <u>12/31/2023</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Mexam</u> (please print) Phone _____ Signature <u>[Signature]</u> Date <u>12/31/2023</u>	

INFORMED CONSENT FORM 2C**CALGARY YOUTH SCIENCE FAIR**

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Meadow Lam</u> (please print) Signature <u>[Signature]</u> Date <u>12/31/23</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Herman Lam</u> (please print) Phone _____ Signature <u>[Signature]</u> Date <u>12/31/23</u>	

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Project Title: Down Memory Lane	
Science Fair Coordinator (Adult Supervisor): Name: Karen Davis Phone: 403-777-7650	
Project Description: People will be asked to look at 12 flashcards randomly from a deck of 48 cards. Each flashcard has a picture and the respective word that describes the picture. The participant will be given one minute to study the flashcards and memorize. They will be then asked to write down all the words they remember in a given amount of time in order to know how age affects memory.	
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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Dessana</u> (please print) Signature <u>[Handwritten Signature]</u> Date <u>Dec 31, 2023</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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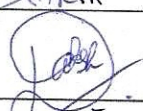

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By signing below, you are agreeing to participate in this study. Name <u>Alexis Velle</u> (please print) Signature <u>Alexis Velle</u> Date _____	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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By signing below, you are agreeing to participate in this study.	
Name <u>DAASH</u> (please print)	
Signature <u></u> Date _____	
If this participant is under the age of 18, permission of a parent or guardian is also required:	
I give permission for the person named above to participate in this study.	
Name <u>DILEEP HARILAL</u> (please print) Phone _____	
Signature <u></u> Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Sylvia Lee</u> (please print) Signature <u>[Signature]</u> Date _____	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Reihan</u> (please print) Signature <u>[Signature]</u> Date <u>31.12.23</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>TAWIBAH TANWANI</u> (please print) Signature <u>[Signature]</u> Date <u>Dec. 31, 2023</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Student Researcher (1): Aayan Saini School: Louis Riel School Phone: 403-777-7650	Student Researcher (2): School: School Phone:
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Project Title: Down Memory Lane

Science Fair Coordinator (Adult Supervisor):
Name: Karen Davis Phone: 403-777-7650

Project Description:
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Your risks from participating:
The participant might feel that the investigation is tedious and/or be disappointed with their results

Your time commitment: 5-8 minutes

The confidentiality of your data:
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Review:
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Feedback:
The results of this research will be provided to you in the public presentation of the Science Fair Project.

By signing below, you are agreeing to participate in this study.

Name Kapil Tanwan (please print)
Signature [Signature] Date 31/12/2023

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name _____ (please print) Phone _____

Signature _____ Date _____

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Kapil Tanwani</u> (please print) Signature <u>[Signature]</u> Date <u>31/12/2023</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Rangam Tamani</u> (please print) Phone <u>403 969 7519</u> Signature <u>[Signature]</u> Date <u>31/12/2023</u>	

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Science Fair Coordinator (Adult Supervisor): Name: Karen Davis Phone: 403-777-7650	
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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Arman Jahangiri</u> (please print) Signature <u>[Signature]</u> Date <u>Dec. 31, 2023</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Student Researcher (1): Aayan Saini School: Louis Riel School Phone: 403-777-7650	Student Researcher (2): School: School Phone:
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Project Title: Down Memory Lane

Science Fair Coordinator (Adult Supervisor):

Name: Karen Davis

Phone: 403-777-7650

Project Description:

People will be asked to look at 12 flashcards randomly from a deck of 48 cards. Each flashcard has a picture and the respective word that describes the picture. The participant will be given one minute to study the flashcards and memorize. They will be then asked to write down all the words they remember in a given amount of time in order to know how age affects memory.

Your benefits from participating:

The participant will get to know how their memory is as well as understand the correlation between age and memory.

Your risks from participating:

The participant might feel that the investigation is tedious and/or be disappointed with their results

Your time commitment: 5-8 minutes

The confidentiality of your data:

The results of this research will be given with all information about individual participants removed. No personal information will be stored on a computer. All information on paper that could be used to identify individuals will be shredded at the end of the research project.

Withdrawal:

Your participation is voluntary, and you have the right to withdraw at any time for any reason. If you wish to do so, please talk to the Science Fair Coordinator/Adult Supervisor.

Review:

This project has been reviewed by the Ethics Committee of the Calgary Youth Science Fair Society and has received permission to proceed.

Feedback:

The results of this research will be provided to you in the public presentation of the Science Fair Project.

By signing below, you are agreeing to participate in this study.

Name Amirhossein Javadi (please print)

Signature [Signature] Date 31-12-2023

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name _____ (please print) Phone _____

Signature _____ Date _____

INFORMED CONSENT FORM 2C



CALGARY YOUTH SCIENCE FAIR

You are invited to take part in a research study. Before you decide to be a part of this study, you need to understand the risks and benefits. This consent form provides information about the research. If you agree to participate in this research, you will be asked to sign this consent form before taking part. This process is known as *Informed Consent*.

Student Researcher (1): Aayan Saini School: Louis Riel School Phone: 403-777-7650	Student Researcher (2): School: School Phone:
Project Title: Down Memory Lane	
Science Fair Coordinator (Adult Supervisor): Name: Karen Davis Phone: 403-777-7650	
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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Marina Sebik</u> (please print) Signature <u>Sebik</u> Date <u>2023.12.31</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Ziwei Zhou</u> (please print) Signature <u>[Signature]</u> Date <u>2023-12-31</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Kingsley Bweal</u> (please print) Signature <u>[Signature]</u> Date <u>31/12/2023</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name _____ (please print) Phone _____ Signature _____ Date _____	

Age:- 42

Thumbtack

Link

chin

fin

fish

Milk

Pills

Back pain

Mitten

Mix

Ribs

Aarhal

Age: 17

Thumbtack
fish

milk

mix

link

chin

back pain

Age: - 44

FDX

FM

Milk

Chin

Back pain

mitten

link

Tumb but

Ribs

Age: 38

Six

Link

Thumbtack

milk

Elephant

Kiss

man

Restaurant

Boy

SIT

Magic Wand

Age: - 44

Fish

Fm

Milk

Chin

Back pain

mitten

link

Tumb but

Ribs

Age: 38

Six

Link

Thumbtack

Milk

Elephant

Kiss

man

Restaurant

Boy

Sit

Magic Wand

Age: 47

Back pain

Chin

Fin

Leaves

Lint roller

mitten

Meditate

Star

Sing

Tail

44.

magic wand

boy

man

igloo

six

kiss

milk

restaurant

link

thumbtack

elephant

42

Star ✓

Am ✓

Chin ✓

meditation ✓

leaves ✓

ring ✓

tail ✓

rib ✓

back path ✓

roller ✓

Age: 17

Meditation

Sing

mix

lint roller

tail

leaves

ribs

Chin

23

Rybs
4ms

Rest

Pills

Milk

Link

Boy

Tubstock

~~Rest~~

Age: 50

chin

Leaves

Sick

pill

Trash can

Rib

Mitten

Age: 28

Trash can - stay - leaves - mitten - chin - ~~can~~ Lips - Ribs -

Age: 15

sick

wig

chin

leaves

pills

ribs

trash can

thumbtack

star

Ages - 11

Kiss

Fin

Thumbtack

Pill

Milk

Ribs

Chin

Boy

~~Kiss~~

Rest

←ish

Age: 15

Sit

Link

Milk

Kiss

Backpack

fish

paperclip

Boy

Rest

restaurant

15

Fish	Ribs	KISS
Link	Milk	Back Pain
Chin	Rest	FIN

Age : 13

Sit

Dig

Restaurant

Boy

Fish

Link

MILK

Drink

Kiss

Paperdick

13

fish, ribs, kiss, link, milk, boy, pills;

Age: 11.

sit

milk

rest

kiss

restaurant

back pain

fish

link

Age: 10

Chin

Ribs

Fin

Ribs

Thumbtack

Age: 10 $\frac{3}{4}$

Sit
Rest
Dig
paper clip

Age 1-39

Drink

can

half circle

twins

zip

lips

jar

pig

slide

38

Age:-

Rest

BAW PAN

LINK

Boy

SIT

Fish

DIG.

MILK

LIP

Ages 38

Star

Sick

Trash can

Thumbtack

Pills

Mitten

Leaves

Age: 37

Rib

Fin

Chin

Thumb Tack

Wig

Age 1- 36

chim

Thun b tack

boy

rest

fin

kiss

back pain

milk

rib

Age: 31

Thumbcock

Ribs

Chin

Candle

leaves

Wig

Tresh can

2d sec.

Candle 30

Age: 29

Lips

chin

pills

leaves

candle

Trash can

Fin

Age :- 29

drink
mitten

slide

pis
exit

zipper
half circle

twins

jar

can

lips

Name:- Karim

Age:- 27

Drink

Set

Back Pain

Milk

Paper clips

Boy

Kiss

Restaurant

07

Boy
chin

Thumbtack

test

backpain

milk

kiss

ribs

pills

fin

fish

Name: Peranab

Age: - 26

Restaurant

Milk

Drink

Kiss

Link

Boy

Sit

Back pain

Fish

Age: 25

~~Fig~~ 'Fin wig Candle leaves
Chin Trash Can Mitten
~~leaps~~ lips

Age: 48

Chin

Fin

Star

Mitten

Sick

Candle

thumbtack

wig

~~star~~

pills

Age: - 47

Name: Sanjeev Kumar

Drink

Kiss

Sit

Restaurant

Paper clip

Boy

Back Pain

Rest

Age:- 45

pig

twins

Lips

can

exit

zip

seed

drink

mitten

Age: 44

Sick, medicine, mitten, star, chin, wig,
fin, trash can.

41

fin

fish

ribs

boy

chin

backpain

pills

kiss

rest

thumbtack

Age 17 Thumbtack

16

An

Boy

Kiss

paper clip

sit

Drink

fish



CALGARY YOUTH SCIENCE FAIR

Elementary Project: Scoring Guidelines

Section 1: Scientific Content (Experimental Projects)

	Excellent	Good	Fair
Problem / Hypothesis	(9-10) The problem / hypothesis was exceptionally relevant and well considered. A significant amount of background research was done.	(7-8) The problem / hypothesis was relevant and well considered. Some background research was conducted.	(5-6) An appropriate problem / hypothesis was formulated based on existing knowledge. Little background research was done.
Method	(18-20) The experimental procedure and materials used are clearly laid out. The experiment was repeated to ensure accurate results, or a large sample size was used. Manipulated and responding variables are indicated and understood. An effort was made to control many outside factors that could affect the experiment. Log book contains a full record of the experiment, including all original data.	(15-17) The experimental procedure and materials are described. An attempt was made to repeat the experiment or have an appropriate sample size. Manipulated and responding variables are clearly stated. Some effort has been made to control external factors. Log book contains a record of the project.	(12-14) There is some description of the procedure and materials used. Enough observations were made to reach a conclusion. Manipulated and responding variables are mentioned. Controlled conditions are acknowledged. Log book contains at least a description of the tasks undertaken over the course of the project.
Analysis / Conclusions	(18-20) Significant analysis of the data has been conducted and clearly presented (charts, graphs, calculations, etc.). Analysis is sufficient to support any conclusions made. Most possible sources of error have been acknowledged.	(15-17) Some analysis has been done and presented and is relevant to the stated problem / objective. Appropriate conclusions have been drawn. Sources of error have been considered.	(12-14) Data has been clearly displayed. Conclusions are relevant to the presented data. Conclusion refers back to the testable question.

Section 1: Scientific Content (Non-Experimental Projects)

	Excellent	Good	Fair
Problem / Hypothesis	(5) There is an innovative problem that directs the study and is both relevant and logical in scope.	(4) The problem was relevant and well considered. It gave clear direction to the study.	(3) A good topic was formulated although a specific problem may not have been identified.
Method	(18-20) A variety of sources was used in the course of research. Care has been taken to verify the accuracy of the information. Information is comprehensive and covers all aspects of the problem. Alternate approaches or theories have been considered and analyzed. The logbook contains a full record of the project, including all original data.	(15-17) Multiple sources were used in the course of research. Some effort has been made to ensure that the sources used are reliable and are related to the study. An effort has been made to cover all aspects of the problem. The logbook contains a record of the project.	(12-14) Few sources were used in research, or the sources used were not independent, but the sources used are reliable. Enough information is present to address the problem. The logbook contains at least a description of the tasks undertaken over the course of the project.
Analysis / Conclusions	(22-25) The research material was critically analyzed, interpreted, and synthesized. Conflict or inconsistencies in the research material was actively sought out and investigated. The conclusion clearly answered the problem.	(18-21) The research material was examined with some attempt at synthesis. Conclusions have been drawn based on the problem that was asked.	(15-17) A good effort to examine the research material was made. Conclusions relating back to the original topic were drawn.

Elementary Project: Scoring Guidelines (Cont'd)

Sections 2 – 4

	Excellent	Good	Fair
Section 2. Creativity and Insights	(22-25) Independent thinking, creativity and resourcefulness were used in the design, implementation and analysis of the project. All aspects of the project (for instance problems, improvements, and applications) have been considered.	(18-21) Emerging evidence of independent thinking and analysis of the project was shown. Aspects of the project (for instance problems, improvements, and applications) have been considered.	(15-17) There is an understanding of some aspects of the project and consideration given to problems, extensions, improvements and applications.
Section 3. Communication	(18-20) Presentation was clear, concise and logical. Questions were answered well. All important written and visual materials were well displayed. All material from other sources was properly credited and a bibliography was provided.	(15-17) The major components of the project were presented, and many questions were answered well. All important written and visual materials were present. All material from other sources was properly credited.	(12-14) Perhaps with prompting a good effort was made in doing an oral presentation and answering most questions were attempted. Most of the important written material was present. Some attempt was made to credit outside sources.
Section 4. Degree of Difficulty	(5) The problem approached was challenging beyond grade level, and a new understanding was gained.	(4) The problem was somewhat challenging, and a good attempt was made to gain an understanding of it.	(3) The problem researched was appropriate to their grade level. A reasonable attempt to understand the problem was made.

Science Fair Project Title

Name(s)

2

Question/Problem

- What was your main question or problem?
- Include your manipulated and responding variables



3

Background research

- What is/are the most important idea(s) required to understand this project?
- Summarize the *most important* background information.
- Visuals are always better than text!



4

Hypothesis

- If... then... because...
- Include some of your knowledge from your background research in the "because".
- Include your manipulated and responding variables



5

Experimental Variables

- Manipulated (the one that is changed)
- Responding (the one that tells you what you are looking to find out)
- Controlled (EVERYTHING else that must be kept constant/same each time you tested)

- Bullet points!
- Keep the text minimal
- Use large font

6

Procedure

- Numbered points in order
- Use large font
- A picture of your experimental setup is VERY helpful

Results/Observations

- A few slides for this section:
 - A slide(s) with a data table
 - A slide(s) with the graph for that data (if it helps)
 - A slide(s) with pictures of your results

8

Analysis

- What do you notice?
 - Identify any trends (what *generally happened*)
 - Identify any outliers (what happened that seemed to not match all the other data)
 - How can you explain this with Science information (look back at your Background Information)
 - This is where you do all the explaining and noticing

9

Conclusion

- A simple statement: did your results confirm your hypothesis or not?



10

Application/Extension

