



Frontenac, Lennox and Addington Science Fair

FLASF 2024 AWARD WINNERS

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Best-of-Fair Awards

Honourable Mention Plaques

(#4104) Bioplastics: The Strength of Calcium Alginate

Student: Jialin Luo

School: Kingston Secondary School

(#2207) How Does Strategy Affect a Game of Chance?

Student: Jessi Paul

School: Calvin Park Public School

Bronze Plaque and Trophy

(#2414) How forest fires affect your health and building an effective mask to protect against forest fires

Student: Kahvian Omrani

School: Lakeshore School

Silver Plaque and Trophy

(#4301) Can We Trust AI Text Detectors? Exposing Limitations and Proposing Fixes

Student: Jonathan Li

School: Kingston Secondary School

Gold Plaque and Queen's University Trophy

(#3380) BioWing: Biomimetic Engineering Gets a Lift

Student: Misha van Anders

School: Loyalist Collegiate & Vocational Institute



Frontenac, Lennox and Addington Science Fair

Divisional Award Winners

Computing and Engineering Division Awards - Primary Age Category

Honourable Mention

(#1304) Geographic Information System (GIS) and Health Care

Student: Gurnivaz Bains

School: Leahurst College

Bronze Medals

(#1302) EV3 Lego Robot with a proportional - integral - derivative steering algorithm
Steering

Student: Maya Thakrar

School: Lakeshore School

(#1303) Making the Real Virtual

Student: Charlotte Williams

School: King's Town School

Silver Medal

(#1301) Can artificial intelligence help teachers create assignments for their students?

Student: Leah Hanna

School: Kingston Christian School

Gold Medal

(#1380) EYE ON THE FIRE: Human and Artificial Intelligence for Continuous
Monitoring of Early Wildfires

Student: Ryan Varma

School: Lakeshore School

Human Health Science Division Awards - Primary Age Category

Honourable Mention

(#1406) AI's impacts on the world

Student: Krisha Patel

School: Lakeshore School

Bronze Medals

(#1402) Catch the "C"?

Student: Ayla Hashtrudi-Zaad

School: Ecole Madelaine de Roybon



Frontenac, Lennox and Addington Science Fair

(#1404) Getting Ahead...Performance Enhancement in Sport

Student: Lauren Marchand

School: Lakeshore School

Silver Medals

(#1403) Taste and Perception

Student: Jude Lockwood

School: Lakeshore School

(#1408) Soda-licious: Which Soda is Least Bad for Your Teeth?

Student: Addison Thomas

School: King's Town School

Gold Medal

(#1405) Cast on cast off: wrist injuries in hockey

Student: Ilaan Nanji

School: King's Town School

Life and Earth Sciences Division Awards - Primary Age Category

Honourable Mention

(#1108) Water filter

Students: Sara Bhattarai and Sananda Dey

School: Lakeshore School

Bronze Medal

(#1102) Can The Sun Clean Water?

Student: Zoe Frantzeskos

School: King's Town School

Silver Medal

(#1106) Do Horses Sense Our Emotions?

Student: Maggie MacKinnon

School: Lakeshore School

Gold Medals

(#1101) Window Washing Fluid - Friend or Foe?

Student: Meredith Bailey

School: King's Town School

(#1107) Wildfires - Prevention, Protection and Firefighting

Student: Alexandria Xu

School: Lakeshore School



Frontenac, Lennox and Addington Science Fair

Physical and Mathematical Sciences Division Award - Primary Age Category

Honourable Mention

(#1205) Rainbows
Student: Kaya Didyk
School: Lakeshore School

Bronze Medals

(#1280) Electromagnetism
Students: James Fecica and Ronan Hendry
School: Rideau Public School

(#1203) Radio Frequency Radiation Reduction Experiment
Student: Lily Klein
School: Cataraqui Woods Public School

Silver Medal

(#1201) Fake Glow Sticks
Student: Sophia Bullock
School: Lakeshore School

Gold Medal

(#1206) The Effect of Hockey Stick Flex on Power And Accuracy
Student: Caleb Jinapriya
School: King's Town School

Computing and Engineering Division Awards - Junior Age Category

Honourable Mention

(#2312) A Digital Guitar
Student: Penelope Lewis-Donnelly
School: Calvin Park Public School

Bronze Medal

(#2390) Using parachute warping to control speed and angle of model rocket descent
Student: Lindsay Surra
School: Clarendon Central Public School



Frontenac, Lennox and Addington Science Fair

Silver Medals

(#2301) My Checkers AI

Student: Colin Ambrose

School: Calvin Park Public School

(#2384) Machine Learning in Medicine: Fracture Detection From Radiograph Images

Student: Matteo Garofalo

School: Calvin Park Public School

(#2311) How does the composition of softball bats affect performance?

Student: Ella Young

School: Calvin Park Public School

Gold Medals

(#2385) Smart Agriculture with IoT: Revolutionizing Farming for the Future

Student: Lujain Khalil

School: Calvin Park Public School

(#2304) River Reviving

Student: Oscar Lyon

School: Calvin Park Public School

Human Health Science Division Awards - Junior Age Category

Honourable Mentions

(#2408) Investigating Sleep

Student: Ellen Goldring

School: Calvin Park Public School

(#2416) The Correlation Between Music and Anxiety

Student: Jayani Patel

School: Calvin Park Public School

Bronze Medals

(#2421) Black Licorice Friend... Or Foe

Student: Kian Thakrar

School: Calvin Park Public School

(#2422) Modified Knee Brace

Student: Muhammed Zaman

School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Silver Medal

(#2411) Biased!!! I'm Not Biased!? ...Yes you are.
Students: Alexander Kolosov and Maxim Levin
School: Calvin Park Public School

Gold Medal

(#2414) How forest fires affect your health and building an effective mask to protect against forest fires
Student: Kahvian Omrani
School: Lakeshore School

Life and Earth Sciences Division Awards - Junior Age Category

Honourable Mentions

(#2125) Natural Sorbents For Oil Spills
Student: Toby Nuttall
School: King's Town School

(#2182) MIRROR, MIRROR on the wall... which plants grow best of all!
Student: Kyle Smith
School: Calvin Park Public School

Bronze Medals

(#2180) Ready, Set, Grow
Student: Eva Beek
School: King's Town School

(#2134) Solar Hydro Heater
Students: Bradley Brooks and Brayden Vanderhorst
School: Calvin Park Public School

Silver Medal

(#2118) Carbon Captured: Citizen Science On the Case!
Student: Phoenix Graham
School: Calvin Park Public School

Gold Medals

(#2181) Changing Atmospheres from Earth to Mars
Student: Chloe Jugroot
School: King's Town School



Frontenac, Lennox and Addington Science Fair

(#2130) Exploring Insulation: Experimenting with Alternative Materials

Student: Ethan Tosh

School: Calvin Park Public School

Physical and Mathematical Sciences Division Awards - Junior Age Category

Honourable Mention

(#2211) How Well Different Tray Types Conduct Heat During Baking

Student: Alexander Todd

School: Calvin Park Public School

Bronze Medals

(#2203) How Does Concentration Affect Rate of Reaction

Students: Katie Godbout and Delilah Tran

School: Calvin Park Public School

(#2215) Development of an Environmentally Friendly Sunblock based on Traditional Ecological Knowledge

Student: Ellie Michelutti

School: Calvin Park Public School

Silver Medal

(#2282) Detecting Radon Where I Live

Student: Luke van Der Pryt

School: Calvin Park Public School

Gold Medal

(#2207) How Does Strategy Affect a Game of Chance?

Student: Jessi Paul

School: Calvin Park Public School

All Division Awards - Intermediate Age Category

Bronze Medal

(#3201) Developing Code to Find and Rank the Best Potentially Habitable Planets in the Milky Way

Students: Zoe Shipp-Wiedersprecher

School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

Silver Medal

- (#3402) Using Artificial Neural Networks for the Early Detection of Cancer
Student: Shail Patel
School: Loyalist Collegiate & Vocational Institute

Gold Medal

- (#3380) BioWing: Biomimetic Engineering Gets a Lift
Student: Misha van Anders
School: Loyalist Collegiate & Vocational Institute

Life and Earth Sciences Awards - Senior Age Category

Honourable Mentions

- (#4103) Respiration Rate of Navy Beans
Student: Neha Gill
School: Kingston Secondary School
- (#4105) Gastropod shell morphologies: examining gastropod sutures' conformity to exponential spiral patterns
Student: Matthew Kong
School: Kingston Secondary School
- (#4110) The Effect of pH on the Mass of Clam Shells
Student: Lucy Zhang
School: Kingston Secondary School

Bronze Medal

- (#4112) Deep Breaths: How does temperature affect the rate of respiration of soil?
Student: Ailsa Kerr
School: Kingston Secondary School

Silver Medals

- (#4101) Ontario's Road Salt Addiction and its Effect on Dissolved Oxygen in Water
Student: Arnav Agarwal
School: Kingston Secondary School
- (#4182) Roots and Respiration: Discovering the Subterrestrial Effect on Transpiration Rate
Student: Andrea Wang
School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

Gold Medal

(#4104) Bioplastics: The Strength of Calcium Alginate
Student: Jialin Luo
School: Kingston Secondary School

Physical and Mathematical Sciences Awards - Senior Age Category

Honourable Mention

(#4203) How Temperature Affects the KSP of Iron (II) Sulphate
Student: Patrick Keay
School: Kingston Secondary School

Bronze Medals

(#4212) How Does the Temperature of Orange Juice Affect the Vitamin C Content?
Student: Anahita Sehgal
School: Kingston Secondary School

(#4210) Modeling the physics related to the colourfulness of bismuth metal
Student: Jack Tang
School: Kingston Secondary School

Silver Medal

(#4211) Effect of pH on the Hydrolysis of Aspirin
Student: Fiona Pu
School: Kingston Secondary School

Gold Medal

(#4207) How does the angular velocity of a ball affect its trajectory?
Student: Narayan Ramachandran
School: Kingston Secondary School

Computing and Engineering and Human Health Science Awards - Senior Age Category

Silver Medal

(#4480) How Does The % Fat Saturation of Soap Impact Its pH?
Student: Linda Li
School: Kingston Secondary School

Gold Medal

(#4301) Can We Trust AI Text Detectors? Exposing Limitations and Proposing Fixes
Student: Jonathan Li
School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

2024 Special Award Winners

ACFOMI Michel Sarrazin Awards

\$50 Cash Prizes and Certificates

(#3102) Bioluminescence bactérienne : Modification ADN pour éclairer

Student: Gloria Fokam

School: École Secondaire Marie-Rivier

(#3302) L'accroissement des plantes et le microgravité

Student: Anaïs Nicklisch

School: École Secondaire Mille Iles

(#3401) Robot capteur de lumière

Students: Olivier Brochu and Sébastiaan Mulder

School: École Secondaire Marie-Rivier

(#4481) Transgenes

Students: Boris Iankovitch and Anne-Laurie Lévesque

School: École Secondaire Marie-Rivier

City of Kingston - Best Environmental Project Award

\$150 Cash Prize

(#2125) Natural Sorbents for Oil Spills

Student: Toby Nuttall

School: King's Town School

GreenCentre Award

\$300 Cash Prize

(#2215) Development of an Environmentally Friendly Sunblock based on Traditional Ecological Knowledge

Student: Ellie Michelutti

School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

INVISTA (Canada) Award for Innovation and Principled Entrepreneurship – Primary Category

\$50 Cash Prize

(#1380) EYE ON THE FIRE: Human and Artificial Intelligence for Continuous
Monitoring of Early Wildfires

Student: Ryan Varma

School: Lakeshore School

INVISTA (Canada) Awards for Innovation and Principled Entrepreneurship – Junior Category

\$125 Cash Prizes

(#2301) My Checkers AI

Student: Colin Ambrose

School: Calvin Park Public School

(#2384) Machine Learning in Medicine: Fracture Detection From Radiograph Images

Student: Matteo Garofalo

School: Calvin Park Public School

INVISTA (Canada) Award for Innovation and Principled Entrepreneurship – Intermediate Category

\$250 Cash Prize

(#3402) Using Artificial Neural Networks for the Early Detection of Cancer

Student: Shail Patel

School: Loyalist Collegiate & Vocational Institute

INVISTA (Canada) Award for Innovation and Principled Entrepreneurship – Senior Category

\$750 Cash Prize

(#4301) Can We Trust AI Text Detectors? Exposing Limitations and Proposing Fixes

Student: Jonathan Li

School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

Kingston Field Naturalists Award

Book Gift Certificate

(#2105) Salty Streets: The Hidden Side of Salinity from Streets to Streams

Student: Mia Bickell

School: Calvin Park Public School

Kingston Process Metallurgy Award

Summer Job or Cash Prize

(#4203) How Temperature Affects the KSP of Iron (II) Sulphate

Student: Patrick Keay

School: Kingston Secondary School

Leahurst College Awards

\$50 Gift Cards

(#2134) Solar Hydro Heater

Students: Bradley Brooks and Brayden Vanderhorst

School: Calvin Park Public School

(#2203) How Does Concentration Affect Rate of Reaction?

Students: Katie Godbout and Delilah Tran

School: Calvin Park Public School

(#2383) Does the Number of Blades on a Wind Turbine Matter?

Students: Nathan Epstein and Sam Fecica

School: Calvin Park Public School

(#2408) Investigating Sleep

Student: Ellen Goldring

School: Calvin Park Public School

(#2411) Biased!!! I'm Not Biased!? ...Yes You Are.

Students: Alexander Kolosov and Maxim Levin

School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Ontario Association of Certified Engineering Technicians and Technologists (OACETT) Award

\$100 Cash Prize and Certificate

(#2388) The Garbage Buddy

Students: Hashim Ahmad and Param Prasad

School: Calvin Park Public School

Peer Awards – Junior Category

\$50 Amazon Gift Cards

(#2422) Modified Knee Brace

Student: Muhammed Zaman

School: Calvin Park Public School

(#2385) Smart Agriculture with IoT: Revolutionizing Farming for the Future

Student: Lujain Khalil

School: Calvin Park Public School

Peer Award – Intermediate/Senior Category

\$50 Amazon Gift Card

(#4280) Galvanic Cell Experiment

Student: Hussain Al Hejami

School: Kingston Secondary School

Professional Engineers of Ontario (PEO) Award - 1st Place

\$400 Cash Prize and Trophy

(#2383) Does the Number of Blades on a Wind Turbine Matter?

Students: Nathan Epstein and Sam Fecica

School: Calvin Park Public School

Professional Engineers of Ontario (PEO) Award - 2nd Place

\$300 Cash Prize

(#4203) How Temperature Affects the KSP of Iron (II) Sulphate

Student: Patrick Keay

School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

Professional Engineers of Ontario (PEO) Award - 3rd Place

\$200 Cash Prize

(#3402) Using Artificial Neural Networks for the Early Detection of Cancer

Student: Shail Patel

School: Loyalist Collegiate & Vocational Institute

Queen's University Department of Biology Awards

\$50 Gift Cards

(#1107) Wildfires - Prevention, Protection and Firefighting

Student: Alexandria Xu

School: Lakeshore School

(#2180) Ready, Set, Grow

Student: Eva Beek

School: Calvin Park Public School

(#2215) Development of an Environmentally Friendly Sunblock based on Traditional Ecological Knowledge

Student: Ellie Michelutti

School: Calvin Park Public School

(#3402) Using Artificial Neural Networks for the Early Detection of Cancer

Student: Shail Patel

School: Loyalist Collegiate & Vocational Institute

Queen's University Department of Biomedical & Molecular Sciences Awards (Medicine, Drugs & Food)

\$50 Cash Prizes

(#2384) Machine Learning in Medicine: Fracture Detection From Radiograph Images

Student: Matteo Garofalo

School: Calvin Park Public School

(#4211) Effect of pH on the Hydrolysis of Aspirin

Student: Fiona Pu

School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

Queen's University Department of Biomedical & Molecular Sciences Awards (The Amazing Human Body)

\$50 Cash Prizes

(#2421) Black Licorice Friend... Or Foe
Student: Kian Thakrar
School: Calvin Park Public School

(#3480) Concussion effects on the brain
Student: Brynn Hancock
School: Holy Cross Catholic Secondary School

Queen's University Department of Biomedical & Molecular Sciences Awards (The Microscopic World)

\$50 Cash Prizes

(#2116) Bacteria on School Surfaces
Student: Jack Forestell
School: J.J. O'Neill Catholic School

(#4205) Chemical Dynamics: Investigating Sodium Thiosulfate Reactivity with HCl
Student: Rayyan Mounib
School: Kingston Secondary School

Queen's University Department of Chemical Engineering Chemical and Bio-Technologies for Sustainability Award

\$100 Cash Prize and Tour

(#2385) Smart Agriculture with IoT: Revolutionizing Farming for the Future
Student: Lujain Khalil
School: Calvin Park Public School

Queen's University Department of Chemistry Award

\$200 Cash Prize

(#4104) Bioplastics: The Strength of Calcium Alginate
Student: Jialin Luo
School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

Queen's University Department of Geography & Planning Award

\$100 Cash Prize

(#1107) Wildfires - Prevention, Protection and Firefighting

Student: Alexandria Xu

School: Lakeshore School

Queen's University Department of Mechatronic & Robotics Engineering Award

\$100 Cash Prize

(#3380) BioWing: Biomimetic Engineering Gets a Lift

Student: Misha van Anders

School: Loyalist Collegiate & Vocational Institute

Queen's University Department of Pathology & Molecular Medicine Award - 1st Place

\$100 Cash Prize and Certificate

(#3480) Concussion effects on the brain

Student: Brynn Hancock

School: Holy Cross Catholic Secondary School

Queen's University Department of Pathology & Molecular Medicine Award - 2nd Place

\$75 Cash Prize and Certificate

(#2417) Convergence Insufficiency

Student: Emily Pressnell

School: Lakeshore School

Queen's University Department of Pathology & Molecular Medicine Award - 3rd Place

\$50 Cash Prize and Certificate

(#2416) The Correlation Between Music and Anxiety

Student: Jayani Patel

School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Queen's University School of Computing Awards

\$100 Cash Prizes

(#1380) EYE ON THE FIRE: Human and Artificial Intelligence for Continuous Monitoring of Early Wildfires

Student: Ryan Varma
School: Lakeshore School

(#2384) Machine Learning in Medicine: Fracture Detection From Radiograph Images

Student: Matteo Garofalo
School: Calvin Park Public School

(#3201) Developing Code to Find and Rank the Best Potentially Habitable Planets in the Milky Way

Student: Zoe Shipp-Wiedersprecher
School: Kingston Secondary School

(#4301) Can We Trust AI Text Detectors? Exposing Limitations and Proposing Fixes

Student: Jonathan Li
School: Kingston Secondary School

Queen's University School of Computing Young Programmer Award – Primary Category

\$30 Cash Prize

(#1302) EV3 Lego Robot with a proportional - integral - derivative steering algorithmD Steering

Student: Maya Thakrar
School: Lakeshore School

Queen's University School of Computing Young Programmer Awards – Junior Category

\$35 Cash Prizes

(#2301) My Checkers AI

Student: Colin Ambrose
School: Calvin Park Public School

(#2312) A Digital Guitar

Student: Penelope Lewis-Donnelly
School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Queen's University School of Environmental Studies Awards

\$50 Gift Cards

(#2125) Natural Sorbents For Oil Spills

Student: Toby Nuttall

School: King's Town School

(#2102) Sustainable Schools

Student: Amelia Ackerman

School: Calvin Park Public School

(#4104) Bioplastics: The Strength of Calcium Alginate

Student: Jialin Luo

School: Kingston Secondary School

(#1380) EYE ON THE FIRE: Human and Artificial Intelligence for Continuous Monitoring of Early Wildfires

Student: Ryan Varma

School: Lakeshore School

Queen's University Engineering Society Science Quest Awards

Week at Science Quest Camp Certificate

(#2384) Machine Learning in Medicine: Fracture Detection From Radiograph Images

Student: Matteo Garofalo

School: Calvin Park Public School

Week at Girls' Quest Camp Certificate

(#1402) Catch the "C"?

Student: Ayla Hashtrudi-Zaad

School: Ecole Madelaine de Roybon

Week at Eco Camp Certificate

(#2422) Modified Knee Brace

Student: Muhammed Zaman

School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Royal Military College of Canada Department of Military Psychology & Leadership Awards

\$50 Gift Cards

(#2411) Biased!!! I'm Not Biased!? ...Yes You Are.

Students: Alexander Kolosov and Maxim Levin
School: Calvin Park Public School

(#2412) How Does Sound Affect Concentration?

Student: Mia Lockhart
School: Calvin Park Public School

(#1403) Taste and Perception

Student: Jude Lockwood
School: Lakeshore School

Rotary Club of Kingston Environmental Sustainability Awards

\$100 Cash Prizes

(#1107) Wildfires - Prevention, Protection and Firefighting

Student: Alexandria Xu
School: Lakeshore School

(#4101) Ontario's Road Salt Addiction and it's Effect on Dissolved Oxygen in Water

Student: Arnav Agarwal
School: Kingston Secondary School

(#1101) Window Washing Fluid - Friend or Foe?

Student: Meredith Bailey
School: King's Town School

Royal Astronomical Society Leo Enright Award for Astronomy

\$150 Cash Prize and Book

(#2390) Using parachute warping to control speed and angle of model rocket descent

Student: Lindsay Surra
School: Clarendon Central Public School



Frontenac, Lennox and Addington Science Fair

Sanofi Biogenius Canada Award

\$100 Cash Prize and Certificate

(#4104) Bioplastics: The Strength of Calcium Alginate

Student: Jialin Luo

School: Kingston Secondary School

St. Lawrence College Behavioural Science Award

\$100 Cash Prize

(#2426) The psychological effect of cosmetics on teenagers

Student: Cadence Petty

School: Calvin Park Public School

St. Lawrence College Faculty of Applied Science Award

\$100 Cash Prize

(#3380) BioWing: Biomimetic Engineering Gets a Lift

Student: Misha van Anders

School: Loyalist Collegiate & Vocational Institute

St. Lawrence College Health Science Award

\$100 Cash Prize

(#3480) Concussion effects on the brain

Student: Brynn Hancock

School: Holy Cross Catholic Secondary School

St. Lawrence College President's Award

\$100 Cash Prize

(#2385) Smart Agriculture with IoT: Revolutionizing Farming for the Future

Student: Lujain Khalil

School: Calvin Park Public School

St. Lawrence College Research Department Award

\$100 Cash Prize

(#3402) Using Artificial Neural Networks for the Early Detection of Cancer

Student: Shail Patel

School: Loyalist Collegiate & Vocational Institute



Frontenac, Lennox and Addington Science Fair

STEAMworks Summer Camp Awards – Primary Category

Week at STEAMworks Summer Camp Certificates

(#1107) Wildfires - Prevention, Protection and Firefighting

Student: Alexandria Xu

School: Lakeshore School

(#1206) The Effect of Hockey Stick Flex On Power And Accuracy

Student: Caleb Jinapriya

School: King's Town School

(#1380) EYE ON THE FIRE: Human and Artificial Intelligence for Continuous Monitoring of Early Wildfires

Student: Ryan Varma

School: Lakeshore School

(#1405) Cast on cast off: wrist injuries in hockey

Student: Ilaan Nanji

School: King's Town School

University of Ottawa Entrance Scholarship Award

\$1000 Entrance Scholarship

(#4301) Can We Trust AI Text Detectors? Exposing Limitations and Proposing Fixes

Student: Jonathan Li

School: Kingston Secondary School