



Frontenac, Lennox and Addington Science Fair

FLASF 2025 AWARD WINNERS

Contents

Best-of-Fair Awards.....	3
Divisional Award Winners	4
Computing and Engineering Division Awards – Primary Age Category.....	4
Human Health Science Division Awards – Primary Age Category	4
Life and Earth Sciences Division Awards – Primary Age Category.....	5
Physical and Mathematical Sciences Division Award – Primary Age Category	6
Computing and Engineering Division Awards – Junior Age Category	6
Human Health Science Division Awards – Junior Age Category.....	8
Life and Earth Sciences Division Awards – Junior Age Category	9
Physical and Mathematical Sciences Division Awards – Junior Age Category.....	11
Computing and Engineering and Life and Earth Sciences Divisions Awards – Intermediate AgeCategory	12
Human Health Science Division Awards – Intermediate Age Category.....	13
Human Health Science Division Awards – Senior Age Category	13
Life and Earth Sciences Division Awards – Senior Age Category.....	14
Physical and Mathematical Sciences Division Awards – Senior Age Category	14
ACFOMI Michel Sarrazin Awards	16
Canadian Meteorological and Oceanographic Society Award – Primary/Junior Category	16
Canadian Meteorological and Oceanographic Society Award – Intermediate/Senior Category	16
City of Kingston – Best Environmental Project Award	17
FLASF Peer Award – Primary Category	17
FLASF Peer Awards – Junior Category	17
Impact Chemistry Award – Primary Category.....	17
Impact Chemistry Award – Junior Category	17
Impact Chemistry Award – Intermediate/Senior Category.....	18
INVISTA (Canada) Award for Innovation and Principled Entrepreneurship – Primary Category.	18
INVISTA (Canada) Awards for Innovation and Principled Entrepreneurship – Junior Category..	18



Frontenac, Lennox and Addington Science Fair

INVISTA (Canada) Awards for Innovation and Principled Entrepreneurship – Intermediate Category.....	19
Kingston Field Naturalists Award	19
Kingston Process Metallurgy Award.....	19
Leahurst College Awards of Excellence in Science.....	19
Ontario Association of Certified Engineering Technicians and Technologists (OACETT) Award .	20
Professional Engineers of Ontario (PEO) Award – 1 st Place.....	20
Professional Engineers of Ontario (PEO) Award – 2 nd Place.....	20
Professional Engineers of Ontario (PEO) Award – 3 rd Place	20
Queen’s University Department of Biology Awards	21
Queen’s University Department of Biomedical & Molecular Sciences Awards (Medicine, Drugs & Food)	21
Queen’s University Department of Biomedical & Molecular Sciences Awards (The Amazing Human Body).....	21
Queen’s University Department of Biomedical & Molecular Sciences Awards (The Microscopic World)	22
Queen’s University Department of Chemical Engineering Chemical and Bio-Technologies for Sustainability Award	22
Queen’s University Department of Chemistry Award.....	22
Queen’s University Department of Geography & Planning Award	22
Queen’s University Department of Mechanical & Materials Engineering MAX-Nuclear Group Award – 1 st Place	23
Queen’s University Department of Mechanical & Materials Engineering MAX-Nuclear Group Award – 2 nd Place	23
Queen’s University Department of Mechatronic & Robotics Engineering Award	23
Queen’s University Department of Pathology & Molecular Medicine Award – 1 st Place	23
Queen’s University Department of Pathology & Molecular Medicine Award – 2 nd Place.....	25
Queen’s University Department of Pathology & Molecular Medicine Award – 3 rd Place	25
Queen’s University School of Computing Awards	25
Queen’s University School of Computing Young Programmer Awards – Primary/Junior/Intermediate Categories	26
Queen’s University School of Environmental Studies Awards.....	26
Queen’s University Engineering Society Science Quest Awards	27



Frontenac, Lennox and Addington Science Fair

Rotary Club of Kingston Environmental Sustainability Awards.....	27
Rotary Club of Kingston Frontenac Environmental Sustainability Awards	28
Royal Astronomical Society of Canada Leo Enright Award for Astronomy.....	28
Royal Military College of Canada Department of Psychology & Leadership Awards	28
STEAMworks Summer Camp Awards – Primary Category	29
University of Ottawa Entrance Scholarship Award.....	29

Best-of-Fair Awards

Honourable Mention Plaque

(#3404) Using 3D printing and calcification to revolutionize orthopedics, and surgical hardware

Student: Kahvian Omrani

School: Loyalist Collegiate & Vocational Institute

Bronze Plaque and Trophy

(#4480) Stigma and Disclosure: To Share or Not to Share

Student: Ani Macy

School: Leahurst College

Silver Plaque and Trophy

(#3381) The Next Step in Legged Robots

Students: Shayon Majumdar and Misha van Anders

School: Loyalist Collegiate & Vocational Institute

Gold Plaque and Queen's University Trophy

(#2309) Colour The World Green

Student: Somaya Shrichand

School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Divisional Award Winners

Computing and Engineering Division Awards – Primary Age Category

Bronze Medals

(#1380) Wheelie on the Moon!
Student: Jyotis Jugroot
School: King's Town School

(#1302) Guitar playing robot
Student: Benjamin Wightman
School: R. Gordon Sinclair Memorial School

Gold Medal

(#1306) What are Maglev Trains?
Student: Samar Kumar
School: Lakeshore School

Human Health Science Division Awards – Primary Age Category

Honourable Mention

(#1480) Ultrasound imaging phantom
Students: Anne Colautti and Veronika Lasso
School: Lakeshore School

Bronze Medal

(#1402) Do Binaural Beats Improve Concentration?
Student: Leah Hanna
School: Kingston Christian School

Silver Medal

(#1404) Nature's Shield, Can homemade sunscreen compete?
Student: Langley McKay
School: King's Town School

Gold Medals

(#1403) Which Pop is the Worst for your Teeth?
Student: Spencer Marchand
School: Lakeshore School



Frontenac, Lennox and Addington Science Fair

(#1406) Rise and Thrive: Using Technology to Support Young Athletes' Mental Health in Competitive Sports

Student: Dustahn Omrani
School: Lakeshore School

Life and Earth Sciences Division Awards – Primary Age Category

Honourable Mentions

(#1105) Plastic on the menu!: How P.E.T-eating bacteria can reduce plastic waste

Student: Charlotte Laird
School: Ecole Sir John A. Macdonald Public School

(#1106) Hydrogels and Houseplants

Student: Addie Maslove
School: King's Town School

Bronze Medals

(#1103) How to Make Popping Boba?

Student: Emma Hu
School: King's Town School

(#1108) The Impact of Different Liquids on the Growth of Vegetables

Student: Eliana Kolomitro
School: Kingston Christian School

Silver Medal

(#1102) Extracting Fruit DNA

Student: Mason Garofalo
School: St. Martha Catholic School

Gold Medals

(#1180) How do plants respond to different sounds?

Students: James Fecica and Ronan Hendry
School: Rideau Public School

(#1104) Growing Organic Vegetables at Home - Feasible or Unattainable?

Student: Lily Klein
School: Cataraqui Woods Public School



Frontenac, Lennox and Addington Science Fair

Physical and Mathematical Sciences Division Award – Primary Age Category

Honourable Mention

(#1203) How to Survive on Mars
Student: Ozwin Lai
School: Lakeshore School

Bronze Medal

(#1201) Lights, Camera, ACTION!
Students: Sophia Bullock
School: Lakeshore School

Gold Medal

(#1202) The Happiest Thought of My Life
Student: Antonio Soares
School: King's Town School

Computing and Engineering Division Awards – Junior Age Category

Honourable Mentions

(#2380) Lego Autonomous Waste Sorter (L.A.W.S)
Student: Aahaan Banerjee
School: Calvin Park Public School

(#2316) AI Detection Showdown: Are Teachers Better than the Public in Identifying
AI-Written Schoolwork?
Students: Audrey Grant and Sadie O'Donnell
School: Calvin Park Public School

(#2388) The sound of health: Imaging scoliosis in young spines
Student: Ayla Hashtrudi-Zaad
School: Ecole Secondaire Marie-Rivier

(#2384) Building an Eco-Friendly Car Powered by Solar and Wind Energy
Students: Adam Hassan and Kai Knutsen
School: Calvin Park Public School

(#2385) VividVision: Colour Accessibility for All
Student: Layan Moustafa
School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

(#2307) Strength To The Skyscrapers
Student: Ioan Nahorny
School: Calvin Park Public School

(#2311) Artist's Support Mannequin Hand
Student: Deepjot Walia
School: Calvin Park Public School

Bronze Medals

(#2301) The Carbon Guardian: An AI-Powered Sustainability Tracker
Students: Colin Ambrose and Param Prasad
School: Calvin Park Public School

(#2304) Mealmate
Student: Maxim Levin
School: Calvin Park Public School

(#2387) Beyond Light: Using a Physical Scanner to Create a 3D image
Student: Charlotte Williams
School: King's Town School

Silver Medals

(#2381) Anti-Gravity Oil Spill Cleaner (with cats)
Students: Quinn Blair-Matuk and Allen Gao
School: Calvin Park Public School

(#2313) Robotic 3D ultrasound
Student: Nora Lasso
School: Ecole Catholique Cathedrale

Gold Medals

(#2309) Colour The World Green
Student: Somaya Shrichand
School: Calvin Park Public School

(#2386) Ember Vision
Student: Ryan Varma
School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Human Health Science Division Awards – Junior Age Category

Honourable Mentions

(#2481) The Liquid Rush

Students: Christopher Fowler and William Sanders

School: Calvin Park Public School

(#2482) MIND OVER MATTER: Can We Train Our Brain?

Student: Ishaan Singh

School: Lancaster Drive Public School

(#2483) Insulin creating pump: the game changer for diabetes

Student: Fitsum Tefera

School: Calvin Park Public School

(#2412) Real or Robot? Can Seventh Graders Differentiate AI from Reality?

Student: Addison Thomas

School: Calvin Park Public School

Bronze Medals

(#2415) Homemade Lip Balm: better for the people, better for the planet

Student: Brontë Horner

School: Calvin Park Public School

(#2411) Lip Plumpers: Fact, Fiction or Fad?

Student: Ella Young

School: Calvin Park Public School

Silver Medal

(#2401) Attitudes and Perceptions Regarding Shrinkflation in Adolescents

Student: Maya Thakrar

School: Calvin Park Public School

Gold Medal

(#2403) Enhancing Dental Implant Accuracy: Exploring the Role of Digital Implant Plans and Surgical Guides

Student: Katie Godbout

School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Life and Earth Sciences Division Awards – Junior Age Category

Honourable Mentions

- (#2102) Hydroponics Growth of Lettuce vs. Natural Growth
Students: Mustaeen Ahmed and Mason Coad
School: Calvin Park Public School
- (#2104) Grow like a Pro: How Minerals Give Plants A Boost!
Student: Arunabha Chattopadhyay
School: King's Town School
- (#2183) Does Blocking Blue Light Effect Plant Growth
Students: Nathan Epstein and Brayden Vanderhorst
School: Calvin Park Public School
- (#2108) The Unfiltered Truth: How Well Do Disinfectants Work?
Student: Zoey Innocente
School: Calvin Park Public School
- (#2128) Clean water for a cleaner future: which material offers optimal water filtration?
Student: Mariam Jnifene
School: Calvin Park Public School
- (#2125) Inside the Vortex: The Anatomy of a Tornado in Diorama
Student: Niamh Maclennan
School: Calvin Park Public School
- (#2119) BIOFLEX: Reimagining Plastic for a Greener Tomorrow
Students: Quinn McCaugherty and Allison Zhang
School: Calvin Park Public School
- (#2124) Crumbs to Cultures: How much bacteria grows on your food?
Student: Cleo McKinven
School: Calvin Park Public School
- (#2187) Reducing carbon emissions from woodstoves using the water solubility method
Student: Ashwati Prashanth
School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

(#2117) Eco-Growth: Harnessing The Power of Seed Paper

Students: Evie Price and Julia Wang

School: Calvin Park Public School

(#2188) HydroSense: The Smart Plant Hydration System

Student: Aarav Shekhawat

School: Calvin Park Public School

(#2114) Mini Aquaponics System

Students: Charlotte Todd and Grace Unsworth

School: Calvin Park Public School

(#2118) Mission Greenhouse

Student: Alexandria Xu

School: Calvin Park Public School

(#2130) Impact of Water Types on Plant Growth

Student: Alan Zhang

School: Calvin Park Public School

Bronze Medals

(#2103) Betulin: How Fire Is It?

Student: Daphne Carter

School: Calvin Park Public School

(#2105) Nature or Nurture? (Boldness and Exploration in Crayfish)

Student: Zhirui Chen

School: Calvin Park Public School

(#2109) Showers To Flowers: Investigating The Use Of Greywater On The Growth of Flowers and Vegetables

Student: Caleb Jinapriya

School: King's Town School

(#2121) How do Alkaline Batteries Impact Plant Growth?

Student: Erin Zhu

School: Calvin Park Public School

Silver Medals

(#2182) Sound Waves: The Future of Farming

Students: Maneesh Dey and Alexander Kolosov

School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

(#2111) Rainwater Harvesting System
Student: Willa McIlquham
School: Calvin Park Public School

(#2112) Reducing Landfill Waste One Umbrella at a Time
Student: Samantha Nolk
School: Calvin Park Public School

(#2115) Superworms: Nature's Plastic Recycler
Student: Delilah Tran
School: Calvin Park Public School

Gold Medals

(#2180) The Smart-Sprout
Students: Hashim Ahmad and Bradley Brooks
School: Calvin Park Public School

(#2185) Carbon Capture with Limewater: A Simple Solution to Global Warming
Students: Sam Fecica and Matteo Garofalo
School: Calvin Park Public School

Physical and Mathematical Sciences Division Awards – Junior Age Category

Honourable Mentions

(#2213) How Does Temperature Affect the Rate of Rust in Water, Oil, Saltwater, and Vinegar

Student: Taylor Chung
School: Leahurst College

(#2206) Revolutionizing Sustainability: The Bioplastic Breakthrough!

Student: Krisha Patel
School: Calvin Park Public School

Bronze Medal

(#2203) Temperature vs pH
Students: Arjun Pednekar and Aryan Pednekar
School: Calvin Park Public School

Silver Medal

(#2201) How Does Temperature Affect How High A Ball Can Bounce?
Student: Yash Agarwal
School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Gold Medal

(#2202) A Cloud in a Bottle
Student: Leo Braun
School: Calvin Park Public School

Computing and Engineering and Life and Earth Sciences Divisions Awards – Intermediate Age Category

Honourable Mention

(#3303) Talking Calculator
Student: Jasper Stotz
School: Ecole Secondaire Marie-Rivier

Bronze Medals

(#3380) Marine Microplastics: Fighting Climate Change with IoT & Machine Learning
Students: Lujain Khalil and Sophie Yao
School: Kingston Secondary School

(#3201) Doing a Bit of Good With Bitcoin : Harnessing Bitcoin Miners for Sustainable and Convenient Heating
Student: Jack Washburn
School: Kingston Secondary School

Silver Medal

(#3304) Mind vs. AI - Why Experimentation is Important in Science
Student: Lindsay Surra
School: Granite Ridge Education Centre

Gold Medals

(#3381) The Next Step in Legged Robots
Students: Shayon Majumdar and Misha van Anders
School: Loyalist Collegiate & Vocational Institute

(#3302) OncoVision: An AI-Powered Platform for Multi-Cancer Detection
Student: Shail Patel
School: Loyalist Collegiate & Vocational Institute



Frontenac, Lennox and Addington Science Fair

Human Health Science Division Awards – Intermediate Age Category

Honourable Mention

(#3402) How Does Profanity in Music Affect Our Emotions and Behavior?

Student: Rawan Khoshafa

School: Kingston Secondary School

Gold Medals

(#3405) Is AI Better at Interpreting Meaning than we are?

Students: Angela Ge and Christine Zhou

School: Kingston Secondary School

(#3406) Les nano particules d'argent peut-il détruire les bactéries ?

Student: Coralie Labonté Bolanos

School: Ecole Secondaire Marie-Rivier

(#3304) Using 3D printing and calcification to revolutionize orthopedics, and surgical hardware

Student: Kahvian Omrani

School: Loyalist Collegiate & Vocational Institute

Human Health Science Division Awards – Senior Age Category

Honourable Mention

(#4401) Measuring whether BMI or WHtR is a better indicator of heart rate recovery speed

Student: Kolsen Shunk

School: Kingston Secondary School

Bronze Medal

(#4402) The effect of vitamin C on iron absorption as determined by spectrophotometry

Student: Selina Zhou

School: Kingston Secondary School

Gold Medal

(#4480) Stigma and Disclosure: To Share or Not to Share

Student: Ani Macy

School: Leahurst College



Frontenac, Lennox and Addington Science Fair

Life and Earth Sciences Division Awards – Senior Age Category

Honourable Mentions

(#4101) Effect of pH on Cu^{2+} Removal using Dried Orange Peels

Student: Pranjol Das

School: Kingston Secondary School

(#4181) The Impact of Temperature on the Rate of Ethanol Fermentation in *Saccharomyces Cerevisiae*

Student: London Platz

School: Kingston Secondary School

Bronze Medal

(#4103) The Effect of Zinc Oxide on the Degradation of Methylene Blue Dye

Student: Alex Splinter

School: Kingston Secondary School

Silver Medal

(#4102) Bioplastic yarn: How does the concentration of calcium chloride affect its tensile strength?

Student: Siya Kumar

School: Kingston Secondary School

Gold Medal

(#4183) How does the hardness present in the water affect the rise of yeast in baking

Student: Elena Vlachopoulos

School: Kingston Secondary School

Physical and Mathematical Sciences Division Awards – Senior Age Category

Honourable Mentions

(#4203) Concentration of Copper Sulphate effects on Copper Plating Quality

Student: Eva Devries

School: Kingston Secondary School

(#4206) Reaction Rate of the Formation of Hydrogen gas from Magnesium and Hydrochloric Acid

Student: Sam Mccaw

School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

(#4208) Hydrogen Peroxide and Catalase

Student: Erin Yang
School: Kingston Secondary School

Bronze Medals

(#4201) How does the strength of the acid affect the enthalpy change of neutralisation?

Student: Jack Ambrose
School: Kingston Secondary School

(#4281) How does change in temperature of acetate buffer affect the pH of the acetate buffer when NaOH is added?

Student: Yajnish Kumar Dhamodaran
School: Kingston Secondary School

Silver Medals

(#4204) Effect of pH on the Solubility of Iron(II) Ions in Acidic Solution

Student: Asmir Hussain
School: Kingston Secondary School

(#4205) How does temperature affect the buffering capacity of an acetic acid/sodium acetate buffer system?

Student: Sophie Knobel
School: Kingston Secondary School

Gold Medal

(#4202) Determining the effect of viscosity of fluid and density on terminal velocity of a falling object

Students: Christian Chan and Kenneth Chen
School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

2025 Special Award Winners

ACFOMI Michel Sarrazin Awards

\$50 Cash Prizes and Certificates

(#1480) Ultrasound imaging phantom
Students: Anne Colautti and Veronika Lasso
School: École Catholique Cathedrale

(#2313) Robotic 3D ultrasound
Student: Nora Lasso
School: École Catholique Cathedrale

(#3406) Les nano particules d'argent peut-il détruire les bactéries?
Student: Coralie Labonté Bolanos
School: École Secondaire Marie-Rivier

(#3301) The effects of animation on our perception of strength
Student: Jacob Hug
School: École Secondaire Marie-Rivier

Canadian Meteorological and Oceanographic Society Award – Primary/Junior Category

\$100 Cash Prize

(#2185) Carbon Capture with Limewater: A Simple Solution to Global Warming
Students: Sam Fecica and Matteo Garofalo
School: Calvin Park Public School

Canadian Meteorological and Oceanographic Society Award – Intermediate/Senior Category

\$200 Cash Prize

(#3380) Marine Microplastics: Fighting Climate Change with IoT & Machine Learning
Students: Lujain Khalil and Sophie Yao
School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair

City of Kingston – Best Environmental Project Award

\$150 Cash Prize

(#2125) Marine Microplastics: Fighting Climate Change with IoT & Machine Learning
Students: Lujain Khalil and Sophie Yao
School: Kingston Secondary School

FLASF Peer Award – Primary Category

\$50 Amazon Gift Card

(#1102) Extracting Fruit DNA
Student: Mason Garofalo
School: St. Martha Catholic School

FLASF Peer Awards – Junior Category

\$50 Amazon Gift Cards

(#2482) MIND OVER MATTER: Can We Train Our Brain?
Student: Ishaan Singh
School: Lancaster Drive Public School

(#2386) Ember Vision
Student: Ryan Varma
School: Kingston Secondary School

Impact Chemistry Award – Primary Category

\$50 Cash Prize and Tour

(#1404) Nature's Shield, Can homemade sunscreen compete?
Student: Langley McKay
School: King's Town School

Impact Chemistry Award – Junior Category

\$100 Cash Prize and Tour

(#2127) Blame It On The Rain: A Demonstration Of Limestone's Vulnerability To Chemical Weathering
Student: Orion Scott
School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Impact Chemistry Award – Intermediate/Senior Category

\$150 Cash Prize and Tour

(#4101) Effect of pH on Cu^{2+} Removal using Dried Orange Peels

Student: Pranjol Das

School: Kingston Secondary School

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

\$50 Cash Prize

(#1406) Rise and Thrive: Using Technology to Support Young Athletes' Mental Health
in Competitive Sports

Student: Dustahn Omrani

School: Lakeshore School

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

\$125 Cash Prizes

(#2113) Soil Quality And Quantity Sensor

Students: Claire Morton and Judy Sorour

School: Calvin Park Public School

(#2386) Ember Vision

Student: Ryan Varma

School: Calvin Park Public School

(#2180) The Smart-Sprout

Students: Hashim Admad and Bradley Brooks

School: Calvin Park Public School

(#2385) VividVision: Colour Accessibility for All

Student: Layan Moustafa

School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

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

\$250 Cash Prizes

- (#3381) The Next Step in Legged Robots
Students: Shayon Majumdar and Misha van Anders
School: Loyalist Collegiate & Vocational Institute
- (#3302) OncoVision: An AI-Powered Platform for Multi-Cancer Detection
Student: Shail Patel
School: Loyalist Collegiate & Vocational Institute
- (#3304) Mind vs. AI - Why Experimentation is Important in Science
Student: Lindsay Surra
School: Granite Ridge Education Centre

Kingston Field Naturalists Award

Trophy and Book Gift Certificate

- (#2105) Nature or Nurture? (Boldness and Exploration in Crayfish)
Student: Zhirui Chen
School: Calvin Park Public School

Kingston Process Metallurgy Award

Summer Job or Cash Prize

- (#4203) Reaction Rate of the Formation of Hydrogen gas from Magnesium and Hydrochloric Acid
Student: Sam Mccaw
School: Kingston Secondary School

Leahurst College Awards of Excellence in Science

\$50 Gift Cards

- (#1180) How do plants respond to different sounds?
Students: James Fecica and Ronan Hendry
School: Rideau Public School
- (#1402) Do Binaural Beats Improve Concentration?
Student: Leah Hanna
School: Kingston Christian School



Frontenac, Lennox and Addington Science Fair

(#2186) Feathered Frequencies

Student: Felix Haley
School: King's Town School

(#2411) Lip Plumpers: Fact, Fiction or Fad?

Student: Ella Young
School: Calvin Park Public School

(#2403) Enhancing Dental Implant Accuracy: Exploring the Role of Digital Implant Plans and Surgical Guides

Student: Katie Godbout
School: Calvin Park Public School

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

\$100 Cash Prize and Certificate

(#2384) Building an Eco-Friendly Car Powered by Solar and Wind Energy

Students: Adam Hassan and Kai Knutsen
School: Calvin Park Public School

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

\$450 Cash Prize and Trophy

(#3305) Light Robot Project

Student: Shiloh Amani Maniragaba
School: École secondaire catholique Marie-Rivier

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

\$325 Cash Prize

(#2310) KineticRolls

Student: Mariam Sultan
School: Module De L'Acadie

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

\$225 Cash Prize

(#1302) Guitar playing robot

Student: Benjamin Wightman
School: R. Gordon Sinclair Memorial School



Frontenac, Lennox and Addington Science Fair

Queen's University Department of Biology Awards

\$50 Cash Prizes

- (#1102) Extracting Fruit DNA
Student: Mason Garofalo
School: St. Martha Catholic School
- (#2105) Nature or Nurture? (Boldness and Exploration in Crayfish)
Student: Zhirui Chen
School: Calvin Park Public School
- (#2115) Superworms: Nature's Plastic Recycler
Student: Delilah Tran
School: Calvin Park Public School
- (#3406) Les nano particules d'argent peut-il détruire les bactéries?
Student: Coralie Labonté Bolanos
School: Ecole Secondaire Marie-Rivier

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

\$50 Cash Prizes

- (#2388) The sound of health: Imaging scoliosis in young spines
Student: Ayla Hashtrudi-Zaad
School: Ecole Secondaire Marie-Rivier
- (#4401) Measuring whether BMI or WHtR is a better indicator of heart rate recovery
speed
Student: Kolsen Shunk
School: Kingston Secondary School

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

\$50 Cash Prizes

- (#2484) Red light to the rescue: reversing UV sun damage with red light therapy
Student: Ellie Michelutti
School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

(#3404) Using 3D printing and calcification to revolutionize orthopedics, and surgical hardware

Student: Kahvian Omrani
School: Loyalist Collegiate & Vocational Institute

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

\$50 Cash Prizes

(#1102) Extracting Fruit DNA

Student: Mason Garofalo
School: St. Martha Catholic School

(#4181) The Impact of Temperature on the Rate of Ethanol Fermentation in *Saccharomyces Cerevisiae*

Student: London Platz
School: Kingston Secondary School

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

\$100 Cash Prize and Tour

(#4102) Bioplastic yarn: How does the concentration of calcium chloride affect its tensile strength?

Student: Siya Kumar
School: Kingston Secondary School

Queen's University Department of Chemistry Award

\$200 Cash Prize

(#4101) Effect of pH on Cu^{2+} Removal using Dried Orange Peels

Student: Pranjol Das
School: Kingston Secondary School

Queen's University Department of Geography & Planning Award

\$100 Cash Prize

(#1106) Hydrogels and Houseplants

Student: Addie Maslove
School: King's Town School



Frontenac, Lennox and Addington Science Fair

Queen's University Department of Mechanical & Materials Engineering MAX-Nuclear Group Award – 1st Place

\$300 Cash Prize

(#2185) Carbon Capture with Limewater: A Simple Solution to Global Warming

Students: Sam Fecica and Matteo Garofalo

School: Calvin Park Public School

Queen's University Department of Mechanical & Materials Engineering MAX-Nuclear Group Award – 2nd Place

\$200 Cash Prize

(#4102) Bioplastic yarn: How does the concentration of calcium chloride affect its tensile strength?

Students: Siya Kumar

School: Kingston Secondary School

Queen's University Department of Mechatronic & Robotics Engineering Award

\$100 Cash Prize

(#3381) The Next Step in Legged Robots

Students: Shayon Majumdar and Misha van Anders

School: Loyalist Collegiate & Vocational Institute

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

\$100 Cash Prize and Certificate

(#4402) The effect of vitamin C on iron absorption as determined by spectrophotometry

Student: Selina Zhou

School: Kingston Secondary School



Frontenac, Lennox and Addington Science Fair



Frontenac, Lennox and Addington Science Fair

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

\$75 Cash Prize and Certificate

(#1404) Nature's Shield, Can homemade sunscreen compete?

Student: Langley McKay

School: King's Town School

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

\$50 Cash Prize and Certificate

(#4401) Measuring whether BMI or WHtR is a better indicator of heart rate recovery speed

Student: Kolsen Shunk

School: Kingston Secondary School

Queen's University School of Computing Awards

\$100 Cash Prizes

(#1304) Game of Life : Making computers from simple rules

Student: Neekan Haghiri

School: St. Genevieve Catholic School

(#2390) Robotic exoskeleton for enhanced human mobility

Students: Ishan Das and Muhammed Sharfaraz Zaman

School: Calvin Park Public School

(#3380) Marine Microplastics: Fighting Climate Change with IoT & Machine Learning

Students: Lujain Khalil and Sophie Yao

School: Kingston Secondary School

(#3302) OncoVision: An AI-Powered Platform for Multi-Cancer Detection

Student: Shail Patel

School: Loyalist Collegiate & Vocational Institute



Frontenac, Lennox and Addington Science Fair

Queen's University School of Computing Young Programmer Awards – Primary/Junior/Intermediate Categories

\$20 Cash Prizes

(#2304) Mealmate

Student: Maxim Levin

School: Calvin Park Public School

(#3381) The Next Step in Legged Robots

Students: Shayon Majumdar and Misha van Anders

School: Loyalist Collegiate & Vocational Institute

(#2306) Into The Game: how the visuals of a game affect the player performance

Student: Oscar Lyon

School: Calvin Park Public School

(#2301) The Carbon Guardian: An AI-Powered Sustainability Tracker

Students: Colin Ambrose and Param Prasad

School: Calvin Park Public School

(#2389) Humanized AI

Students: Judy Kim and Lila McIntosh Murray

School: Calvin Park Public School

Queen's University School of Environmental Studies Awards

\$50 Gift Cards

(#2180) The Smart-Sprout

Students: Hashim Ahmad and Bradley Brooks

School: Calvin Park Public School

(#2111) Rainwater Harvesting System

Student: Willa McIlquham

School: Calvin Park Public School

(#1105) Plastic on the menu!: How P.E.T-eating bacteria can reduce plastic waste

Student: Charlotte Laird

School: Ecole Sir John A. Macdonald Public School



Frontenac, Lennox and Addington Science Fair

(#3201) Doing a Bit of Good With Bitcoin : Harnessing Bitcoin Miners for Sustainable and Convenient Heating

Student: Jack Washburn
School: Kingston Secondary School

Queen's University Engineering Society Science Quest Awards

Week at Science Quest Camp Certificate

(#2387) Beyond Light: Using a Physical Scanner to Create a 3D image

Student: Charlotte Williams
School: King's Town School

Week at Girls' Quest Camp Certificate

(#1401) How Clean Are Our Hands?

Student: Saoirse De Jager
School: King's Town School

Week at Eco Camp Certificate

(#2386) Ember Visionydhwrt6y

Student: Ryan Varma
School: Calvin Park Public School

Rotary Club of Kingston Environmental Sustainability Awards

\$100 Cash Prizes

(#3380) Marine Microplastics: Fighting Climate Change with IoT & Machine Learning

Students: Lujain Khalil and Sophie Yao
School: Kingston Secondary School

(#2185) Carbon Capture with Limewater: A Simple Solution to Global Warming

Students: Sam Fecica and Matteo Garofalo
School: Calvin Park Public School

(#2119) BIOFLEX: Reimagining Plastic for a Greener Tomorrow

Students: Quinn McCaugherty and Allison Zhang
School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Rotary Club of Kingston Frontenac Environmental Sustainability Awards

\$150 Cash Prizes

(#3380) Marine Microplastics: Fighting Climate Change with IoT & Machine Learning

Students: Lujain Khalil and Sophie Yao

School: Kingston Secondary School

(#2185) Carbon Capture with Limewater: A Simple Solution to Global Warming

Students: Sam Fecica and Matteo Garofalo

School: Calvin Park Public School

(#2381) Anti-Gravity Oil Spill Cleaner (with cats)

Students: Quinn Blair-Matuk and Allen Gao

School: Calvin Park Public School

Royal Astronomical Society of Canada Leo Enright Award for Astronomy

\$150 Cash Prize and Book

(#1380) Wheelie on the Moon!

Student: Jyotis Jugroot

School: King's Town School

Royal Military College of Canada Department of Psychology & Leadership Awards

\$50 Gift Cards

(#1406) Rise and Thrive: Using Technology to Support Young Athletes' Mental Health in Competitive Sports

Student: Dustahn Omrani

School: Lakeshore School

(#2385) VividVision: Colour Accessibility for All

Student: Layan Moustafa

School: Calvin Park Public School

(#4480) Stigma and Disclosure: To Share or Not to Share

Student: Ani Macy

School: Leahurst College



Frontenac, Lennox and Addington Science Fair

STEAMworks Summer Camp Awards – Primary Category

Week at STEAMworks Summer Camp Certificates

(#1180) How do plants respond to different sounds?

Students: James Fecica and Ronan Hendry

School: Rideau Public School

(#1202) The Happiest Thought of My Life

Student: Antonio Soares

School: King's Town School

(#1102) Extracting Fruit DNA

Student: Mason Garofalo

School: St. Martha Catholic School

(#1406) Rise and Thrive: Using Technology to Support Young Athletes' Mental Health
in Competitive Sports

Student: Dustahn Omrani

School: Lakeshore School

University of Ottawa Entrance Scholarship Award

\$1000 Entrance Scholarship

(#4480) Stigma and Disclosure: To Share or Not to Share

Student: Ani Macy

School: Leahurst College