

2017 Divisional Award Winners

Junior - Biotechnology

Silver Medallion (\$40 cash)

(138BTJ) Going the Distance?

Student: Holden Ford

School: Centennial P.S. - Congregated Class

Gold Medallion (\$70 cash)

(066BTJ) Come Clean, Burn Green!

Students: Gabe Cardoso , Ethan Mehlenbacher

School: Hespeler P.S.

Senior - Biotechnology

Silver Medallion (\$60 cash)

(002BTS) SAPs: Advancing water augmentation

Students: Suyog Joshi , Danny Ou

School: Cameron Heights C.I.

Gold Medallion (\$100 cash)

(038BTS) New Bio-friendly Antimicrobial Agent: Silver NP

Student: Danish Baig

School: Waterloo C.I. - Geotechnology

(126BTS) A Biomimetic Hemodialysis Model

Student: Connie Cheng

School: Sir John A. Macdonald S.S.

Junior - Engineering

Pewter Medallion

(013ESJ) Creating Music with Artificial Intelligence

Student: Matthews Ma

School: Centennial P.S.

(093ESJ) Solar Car vs. Electric Car

Students: Calvin Bramble , Rohan Shetty

School: Centennial P.S.

(036ESJ) To Mars and Beyond

Student: Kamal Al Alwan

School: Lincoln Heights P.S.

(183ESJ) Anytime Anywhere Greenhouse

Student: Emily Koiter

School: Hespeler P.S.

(221ESJ) Why The Hype About Loops

Student: Benjamin Hellinga

School: Guelph Community Christian School

(099ESJ) Hydraulic Arm

Student: Liam Wenderoth

School: Guelph Community Christian School

(191ESJ) Hyperloop:

Students: Elizabeth Campbell , Jessica Ding

School: Laurelwood P.S.

Bronze Medallion (\$30 cash)

(165ESJ) G-ENERGY LIGHT: Gravity to Electricity

Student: Ali Ermis

School: International School Of Cambridge

(185ESJ) Electric Wind

Student: Tyne Mitchell

School: St. Ignatius of Loyola C.E.S.

(007ESJ) Can Self-Driving Cars Save Fuel?

Student: Daniel Molina

School: Rockway Mennonite Collegiate

(218ESJ) How Much Weight Can You Lift With One Arm?
Student: Liam Jewer
School: St. Agnes C.S.

(001ESJ) Self Driving Cars
Students: Ayse Nur Fidan , Ayah Elmallah
School: MAC Maple Grove School

(143ESJ) Thermoelectric Thermals
Student: Neil Kaus
School: St. John's-Kilmarnock School

(095ESJ) Alice: Friend of the Future
Students: Tyler McDonald , Smitty van Bodegom
School: Wm. G. Davis P.S. - Congregated Class

(104ESJ) Creating A Motorized Toy
Students: Audrey Van Delst , Patty Schmidt
School: Wm. G. Davis P.S. - Congregated Class

Gold Medallion (\$70 cash)

(157ESJ) The Healing Hat
Student: Clarissa Chamberlain
School: K.W. Bilingual School

(121ESJ) Robots and Computer Vision
Student: Michael Denissov
School: MacGregor P.S.

(127ESJ) Phixing Physio
Student: Marina Ilyas
School: Centennial P.S.

(201ESJ) Up, Up and Away
Student: Drew VanderBerg
School: Guelph Community Christian School

Intermediate - Engineering

Silver Medallion (\$60 cash)

(187ESI) Office Posture Monitoring: An Innovative Approach
Student: Hadi Almalki
School: Sir John A. Macdonald S.S.

(039ESI) The Bare Bones of Machine Learning
Student: Sasha Seufert
School: Centennial C. & V.I.

Gold Medallion (\$100 cash)

(211ESI) CPU Load Covert Channel Based On Interrupt Latency
Student: Ethan White
School: Waterloo C.I. - Geotechnology

Senior - Engineering

Pewter Medallion

(019ESS) Wearing Watch Metronome
Students: Jiahua Shang , Erping Zhang
School: Waterloo C.I. - Geotechnology

Junior - Life Science

Pewter Medallion

(030LSJ) How Seed Depth Affects Plant Growth
Student: Sarah Harman
School: Cambridge Christian School

(086LSJ) Stand Up, Stand Out
Student: Teodora Maluckov
School: Edna Staebler P.S.

(022LSJ) The Marshmallow Test
Students: Alina Armbruster , Evelyne Jewitt-Dyck
School: Centennial P.S. - Congregated Class

(088LSJ) Positive vs Negative Motivation
Students: Tori Clemens , Laura Weiler
School: Centennial P.S. - Congregated Class

(108LSJ) Do produce washes really keep food fresh longer?
Student: Joellah Fletcher
School: Rockway Mennonite Collegiate

(210LSJ) Fishing With Hotdogs
Students: Ben Packull , Thomas Fieguth
School: Centennial P.S.

(112LSJ) Spilling the Beans on Plant Growth
Student: Patrick Kooy
School: Laurentian Hills Christian School

(202LSJ) Does Chewing Gum Affect Test Scores
Students: Ethan Velle , Chinthana Sembakutti
School: Centennial P.S. - Congregated Class

(056LSJ) Texting Vs Talking - effects on reaction time
Student: Andrew Matlow
School: Rockway Mennonite Collegiate

(078LSJ) To Grow Or Not To Grow
Student: Eden Lucchetta-Dane
School: St. John's-Kilmarnock School

(106LSJ) Stay Pawsitive
Student: Hannah Kamutzki
School: Cambridge Christian School

(070LSJ) What Does the Nose Know?
Student: Madison Mercier
School: Wm. G. Davis P.S. - Congregated Class

(196LSJ) A+B does not = C
Student: Olivia MacNeil
School: Hespeler P.S.

(124LSJ) Tremendous Triops
Student: Anika Koops
School: Guelph Community Christian School

(178LSJ) Stressed Out
Student: Grace Glen
School: Guelph Community Christian School

(050LSJ) Got The Munchies
Student: Danielle Bronsveld
School: Guelph Community Christian School

(048LSJ) When Should You Study?
Students: Maya Samra , Robert Fraser
School: K.W. Bilingual School

Bronze Medallion (\$30 cash)

(032LSJ) Are You At Risk?
Student: Namrata Mishra
School: Edna Staebler P.S.

(152LSJ) How well can plants filter out impurities that mov
Student: Nelson Chen
School: Edna Staebler P.S.

(114LSJ) Integrity Much?
Student: Mana Safari Ghahsareh
School: Edna Staebler P.S.

(128LSJ) Bready for Mold
Students: Bethany Reid-Smith , Rose Van Hemmen
School: St. Francis of Assisi

(098LSJ) Pareidolia: People Hear What They Want to Hear
Student: Aimen Fatima
School: International School Of Cambridge

(142LSJ) The Answer Flashes Before Your Eyes
Student: Adeeb Mahmud
School: Centennial P.S.

(014LSJ) The Salty Soloution
Student: Kara Brunsting
School: Laurentian Hills Christian School

(194LSJ) Can Reusable "Bee" Usable?
Student: Esther Albrecht
School: Rockway Mennonite Collegiate

(042LSJ) Wall-ee
Students: Alessia Carbone , Isabelle Mazzocco
School: St. Ignatius of Loyola C.E.S.

(176LSJ) Does Cooking Food Reduce the Vitamin Content?
Student: Ramla Bana
School: International School Of Cambridge

(018LSJ) How Can I Get Taller?
Student: Issay Tieu
School: Wm. G. Davis P.S. - Congregated Class

(044LSJ) How strong is the placebo effect?
Student: Salma Aldeeb
School: International School Of Cambridge

(154LSJ) Which Barbie Would You Choose?
Students: Sophie Nyman , Sophia Karavelus
School: Lester B. Pearson P.S.

(118LSJ) Turn on the Pop Music
Student: Adi Peetush
School: Laurelwood P.S.

(172LSJ) Boys vs. Girls
Student: Kamran Sadiq
School: K.W. Bilingual School

(110LSJ) Do Twins Have Similar Fingerprints
Students: Iris Bednarski , Arya Patel
School: K.W. Bilingual School

(170LSJ) Bioluminescent Bacteria
Student: Sneha Balaji
School: Laurelwood P.S.

Silver Medallion (\$40 cash)

(198LSJ) Colour Perception
Student: Abi Pacheco
School: Edna Staebler P.S.

(072LSJ) How does Aloe Vera Affect the Growth of Mold?
Students: Maddie Reid , Bella Morrison
School: Edna Staebler P.S.

(206LSJ) ABCDE....M of Diabetes
Student: Fatima Muneer
School: International School Of Cambridge

(220LSJ) Do Music And Language Affect YOUR Memory?
Students: Chiara Caldarelli , Haylee Morant
School: Lester B. Pearson P.S.

(052LSJ) The Opioid Crisis: How To Turn The Tide
Student: Ojas Chahal
School: Wm. G. Davis P.S. - Congregated Class

(132LSJ) Location C: What We Can't See
Students: Mikayla Erison , Jessica Poon
School: Wm. G. Davis P.S. - Congregated Class

(134LSJ) Ellie and the Eco-Friendly Bean Stock
Student: Ellie Sparks
School: Hespeler P.S.

(006LSJ) Ant Attraction Factor
Student: Natalie Miners
School: Guelph Community Christian School

(174LSJ) Keep It Fresh
Student: Grace Edward
School: Guelph Community Christian School

Gold Medallion (\$70 cash)

(004LSJ) Rods vs. Cones - Which are better?
Students: Daniel Yu , Robert Mckinnon
School: Centennial P.S. - Congregated Class

(140LSJ) The Case of Conformity
Student: Raquel Harte
School: K.W. Bilingual School

(084LSJ) The Frequency Hertz
Student: Emma Hoffman
School: Hespeler P.S.

(090LSJ) Gamma Waves: How Do They Affect Learning?
Student: Cornelia Schattman
School: Centennial P.S. - Congregated Class

(190LSJ) Artificial Coral Reef
Student: Julia Nicolaisen
School: Northlake Woods P.S.

Intermediate - Life Science

Bronze Medallion (\$40 cash)

(054LSI) Under The Influence
Student: Victoria Chovaz
School: St. John's-Kilmarnock School

Silver Medallion (\$60 cash)

(068LSI) Do You See The Light?
Student: Erica Barra
School: St. John's-Kilmarnock School

Gold Medallion (\$100 cash)

(094LSI) Exit-Signal Effects on Yield Rates in Roundabouts
Student: Ruth Meyer
School: Individual Entry

(168LSI) Firm 'n' Cute
Student: Sadia Khan
School: Cameron Heights C.I.

(074LSI) Hemodynamic Effects of Yoga:a Mechanistic Study
Student: Ashok Pandey
School: Waterloo C.I. - Geotechnology

(204LSI) Bacterial Growth in Salmon with Varying Marinades
Student: Angela Zhang
School: Sir John A. Macdonald S.S.

Senior - Life Science

Pewter Medallion

(046LSS) The Cure for Diabetes

Students: Rahavi Gnanasegar , Mariam Abdel-Kader

School: Sir John A. Macdonald S.S.

Silver Medallion (\$60 cash)

(148LSS) Testing for Antibiotic Resistance

Student: Logan Ingalls

School: Sir John A. Macdonald S.S.

Gold Medallion (\$100 cash)

(150LSS) Impact of Probiotics on Global Cardiovascular Risk

Student: Arjun Pandey

School: Waterloo C.I. - Geotechnology

Junior - Physical and Mathematical Science

Pewter Medallion

(144PSJ) A Caplet a Day Keeps the Pain Away

Students: Angelica Celestial , Emma Tran

School: St. Francis of Assisi

(137PSJ) Icy Issues

Students: Paige Sotke , Chloe Massey

School: St. Ignatius of Loyola C.E.S.

(177PSJ) Be Quiet!

Students: Caden Young , Justin Arrieta

School: St. Ignatius of Loyola C.E.S.

(075PSJ) Crazy Cabbage Chemistry

Students: Kara Tremblay , Emily Peck

School: Cambridge Christian School

(141PSJ) How Blue Dye is in your sports drink?

Student: Oren Teschke

School: Laurentian Hills Christian School

(063PSJ) Dosage Dilemmas

Student: Gwen Zondag

School: Laurentian Hills Christian School

(047PSJ) The Sublimation Station

Students: Kyle Service , Holden Vint

School: Cambridge Christian School

(135PSJ) Stop the Burn: Which SPF Will You Choose?

Student: Aiman Ahmed

School: MAC Maple Grove School

(107PSJ) Ozone and Car Zone

Student: Huda Almalki

School: Centennial P.S.

(109PSJ) Seeking Balance: A Diffusion and Osmosis
Production

Student:

School: St. John's-Kilmarnock School

(145PSJ) Makeup Your Mind

Students: Gemma Turner , Angelina Wishart

School: Wm. G. Davis P.S. - Congregated Class

(219PSJ) Whatever Floats Your Magnet

Students: Dakota Booth , James Nahls

School: Wm. G. Davis P.S. - Congregated Class

(077PSJ) Race and Replace

Student: Naomi Fast

School: Laurentian Hills Christian School

(113PSJ) Ice Breakers
Student: Emma Yee
School: Hespeler P.S.

(021PSJ) Crude Awakening
Student: Jackson Wallace
School: Guelph Community Christian School

(139PSJ) Iron for Breakfast
Student: Andrew Van Dyke
School: Guelph Community Christian School

(087PSJ) Hurry Up, I Need Some Water!
Student: Katya VanderBerg
School: Guelph Community Christian School

(069PSJ) High Voltage
Student: Mason Plattner
School: Guelph Community Christian School

(149PSJ) Bubble Trouble
Student: Alexia Stamate
School: Hespeler P.S.

(101PSJ) Which Substance Melts Ice the Fastest
Student: Mahad Chaudhry
School: MAC Maple Grove School

Bronze Medallion (\$30 cash)

(017PSJ) Foolproof Soundproof
Student: Meghan Vrolyk
School: Edna Staebler P.S.

(117PSJ) Picture Perfect
Student: Eden Witteveen
School: Cambridge Christian School

(027PSJ) Fire Hertz
Student: Nevan Hagarty
School: St. Francis of Assisi

(051PSJ) Nailed It
Students: Jared McComb , Aidan LoStracco
School: St. Francis of Assisi

(085PSJ) Meltdown
Students: Ashley Ciccica , Kristen Vettoretto
School: St. Francis of Assisi

(179PSJ) Now You Hear Me Now You Dont
Students: Payton Mackey , Nicole Castano
School: Rockway Mennonite Collegiate

(115PSJ) From Cubes to Crystals: Shapes in Nature
Student: Aidan Carmody
School: Centennial P.S. - Congregated Class

(205PSJ) Which Cleaner Works Best
Student: Ruby Dyck Steinmann
School: Rockway Mennonite Collegiate

(061PSJ) How Temperature Affects Batteries
Student: Jeremy Collins
School: Centennial P.S.

(082PSJ) Baking Is A Science
Students: Lily Boughton , Charlotte Turner
School: Wm. G. Davis P.S. - Congregated Class

(037PSJ) The Acid Truth
Student: Avery Stokes
School: Wm. G. Davis P.S. - Congregated Class

(125PSJ) Really Radical Radio
Student: Michael Haas
School: St. Agnes C.S.

(167PSJ) The Culture of Packaging
Students: Calla Mueller , Emma Pitschner
School: Wm. G. Davis P.S. - Congregated Class

(079PSJ) Investigating on the Crystal Growth
Student: Sasha Pichugina
School: Centennial P.S.

(161PSJ) Are You Getting What You Paid for?
Student: Demitra Bronson
School: Hespeler P.S.

(009PSJ) Oh, How It "Burns"
Students: Abigail Wilson , Emma Butler
School: Hespeler P.S.

(023PSJ) Sound in the Box
Student: Eleanor Ciceri
School: St. John's-Kilmarnock School

(011PSJ) Electrolyte Right
Student: Megan Davitsky
School: K.W. Bilingual School

(031PSJ) The "Busy Worker" App
Students: Patrick Keung , Yani Sebbane
School: Northlake Woods P.S.

Silver Medallion (\$40 cash)

(169PSJ) Milkweed Jackets?
Student: Amy Praetzel
School: Individual Entry

(207PSJ) Where the Wild Things Grow
Student: Jorja-Paige Pettigrew
School: St. Francis of Assisi

(217PSJ) Fruits vs Chemicals
Students: Meredith McCorkell , Isabel Bruce
School: Centennial P.S.

(181PSJ) The Science of Fudge
Students: Emily Lilley , Anika Hudali
School: Wm. G. Davis P.S. - Congregated Class

(057PSJ) Watt's Using Power In The PC Tower?
Student: Ryan Schindler
School: St. Agnes C.S.

(049PSJ) More Attractive?
Student: Emma Jenkins
School: Lester B. Pearson P.S.

(043PSJ) Electrolysis of Water
Student: Sophia Gryshchenko
School: Centennial P.S.

(119PSJ) Paper Chromatography
Students: Maryam Abid , Yara Fahmy
School: MAC Maple Grove School

(067PSJ) Exploring the Fourth Dimension
Student: Zofia Korsak
School: Lester B. Pearson P.S.

(193PSJ) Dyeing Naturally
Student: Emily D'Agostino
School: K.W. Bilingual School

Gold Medallion (\$70 cash)

(163PSJ) Watch The Algal Bloom!

Student: Adriana Ceric

School: Centennial P.S.

(213PSJ) Battling Bacteria

Students: Mayah Capovilla , Kate Andrews

School: St. Ignatius of Loyola C.E.S.

(209PSJ) Molecular Gastronomy, Where science and food colli

Student: Raphael Hanna

School: St. John's-Kilmarnock School

(159PSJ) Skin Deep: The Effectiveness of Acne Treatments

Students: Myah Robinson , Jaclyn Brennan

School: Wm. G. Davis P.S. - Congregated Class

(053PSJ) Your Hands Deserve The Best

Student: Kate Marchetti

School: Hespeler P.S.

(041PSJ) Steel Wars- Corrosion on Submersed Steel

Student: Amanda Kleinikkink

School: Laurentian Hills Christian School

(029PSJ) EFFECT OF MIXING OF TWO FLUIDS ON
VISCOSITY

Student: Arnav Pal

School: Centennial P.S.

**Intermediate - Physical and Mathematical
Science****Pewter Medallion**

(197PSI) Optimizing the Air Battery

Student: Brandon Shi

School: St. John's-Kilmarnock School

Bronze Medallion (\$40 cash)

(131PSI) Exfoliant That!

Student: Emily Davis

School: St. John's-Kilmarnock School

Silver Medallion (\$60 cash)

(081PSI) Who Likes Mild Winters?

Student: Daniel Cheriyan

School: Waterloo C.I. - Geotechnology

Gold Medallion (\$100 cash)

(059PSI) "To Drink, or Not to Drink?"

Student: Hayley McCormick

School: Individual Entry

Senior - Physical and Mathematical Science**Bronze Medallion (\$40 cash)**

(133PSS) Quantifying the Risk of Bird Strikes

Students: Nicholas Pfeifle , Henry Hu

School: Waterloo C.I. - Geotechnology

Gold Medallion (\$100 cash)

(089PSS) The Impact of Air Gap on Torque Ripple

Student: Sergiu Pocol

School: Cameron Heights C.I.

(153PSS) A Novel Algorithm for Identifying Sequence Motifs

Student: Advait Maybhate

School: Sir John A. Macdonald S.S.

(195PSS) HAB Prediction Using Machine Learning Algorithms

Students: Atif Mahmud , Zachary Trefler

School: Waterloo C.I. - Geotechnology

Best in Division - Biotechnology

Plaque

(038BTS) New Bio-friendly Antimicrobial Agent: Silver NP
Student: Danish Baig
School: Waterloo C.I. - Geotechnology

Best in Division - Engineering

Plaque

(127ESJ) Phixing Physio
Student: Marina Ilyas
School: Centennial P.S.

Best in Division - Life Science

Plaque

(168LSI) Firm 'n' Cute
Student: Sadia Khan
School: Cameron Heights C.I.

Best in Division - Physical and Mathematical Science

Plaque

(195PSS) HAB Prediction Using Machine Learning Algorithms
Students: Atif Mahmud , Zachary Trefler
School: Waterloo C.I. - Geotechnology

2017 Special Award Winners

Stephen J. Little Award for Science Presentation

Trophy and Chapters Gift Card

(201ESJ) Up, Up and Away
Student: Drew VanderBerg
School: Guelph Community Christian School

Best Written Report

Junior - Trophy

(163PSJ) Watch The Algal Bloom!
Student: Adriana Ceric
School: Centennial P.S.

(158LSJ) Do different fonts and colours impact memory?
Student: Anna Tyas-Petrik
School: Rockway Mennonite Collegiate

(127ESJ) Phixing Physio
Student: Marina Ilyas
School: Centennial P.S.

(201ESJ) Up, Up and Away
Student: Drew VanderBerg
School: Guelph Community Christian School

(087PSJ) Hurry Up, I Need Some Water!
Student: Katya VanderBerg
School: Guelph Community Christian School

Intermediate - Trophy

(204LSI) Bacterial Growth in Salmon with Varying Marinades
Student: Angela Zhang
School: Sir John A. Macdonald S.S.

Senior - Trophy

(148LSS) Testing for Antibiotic Resistance
Student: Logan Ingalls
School: Sir John A. Macdonald S.S.

Sir Isaac Newton Award - Junior

Chapters Gift Certificate

(041PSJ) Steel Wars- Corrosion on Submersed Steel
Student: Amanda Kleinikkink
School: Laurentian Hills Christian School

Sir Isaac Newton Award - Intermediate

Chapters Gift Certificate

(081PSI) Who Likes Mild Winters?
Student: Daniel Cheriyan
School: Waterloo C.I. - Geotechnology

Sir Isaac Newton Award - Senior

Chapters Gift Certificate

(195PSS) HAB Prediction Using Machine Learning Algorithms
Students: Atif Mahmud , Zachary Trefler
School: Waterloo C.I. - Geotechnology

Chem 13 Award

One year subscription to Scientific American or another scientific journal deemed suitable for the level of the recipient.

(176LSJ) Does Cooking Food Reduce the Vitamin Content?
Student: Ramla Bana
School: International School Of Cambridge

2017 Other Award Winners

Stepping Stone Award

Trophy

(163PSJ) Watch The Algal Bloom!
Student: Adriana Ceric
School: Centennial P.S.

(041PSJ) Steel Wars- Corrosion on Submersed Steel
Student: Amanda Kleinikkink
School: Laurentian Hills Christian School

(190LSJ) Artificial Coral Reef
Student: Julia Nicolaisen
School: Northlake Woods P.S.

2017 Grand Award Winners

Award of Merit

All expense paid trip to the Canada-Wide Science Fair

(038BTS) New Bio-friendly Antimicrobial Agent: Silver NP
Student: Danish Baig
School: Waterloo C.I. - Geotechnology

(094LSI) Exit-Signal Effects on Yield Rates in Roundabouts
Student: Ruth Meyer
School: Individual Entry

(089PSS) The Impact of Air Gap on Torque Ripple
Student: Sergiu Pocol
School: Cameron Heights C.I.

(168LSI) Firm 'n' Cute
Student: Sadia Khan
School: Cameron Heights C.I.

(153PSS) A Novel Algorithm for Identifying Sequence Motifs
Student: Advait Maybhate
School: Sir John A. Macdonald S.S.

(127ESJ) Phixing Physio
Student: Marina Ilyas
School: Centennial P.S.

(195PSS) HAB Prediction Using Machine Learning Algorithms
Students: Atif Mahmud , Zachary Trefler
School: Waterloo C.I. - Geotechnology

(211ESI) CPU Load Covert Channel Based On Interrupt
Latency
Student: Ethan White
School: Waterloo C.I. - Geotechnology

The Award of Excellence

**Cash, Certificate, Medallion and Admission Scholarship to
University of Ottawa (\$250 cash / \$1000 scholarship)**

(195PSS) HAB Prediction Using Machine Learning Algorithms
Students: Atif Mahmud , Zachary Trefler
School: Waterloo C.I. - Geotechnology