

57th Vancouver Island Regional Science Fair, April 2018

Overall Winners

First	132	Nicolas Fedrigo	Improving Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Claremont Secondary School	11
Second	133	Hanqing (Albert) Yang	Control for Groups of Robots - Collaborative Rescue	Glenlyon Norfolk School	11
Third	134	Melody Cheng	Purifying Water: Using citric acid-crosslinked beta-cyclodextrin polymer to remove bisphenol A	Glenlyon Norfolk School	10
Fourth	100	Lauren Ohnona	Microplastics: In Our Local Shellfish	Pender Islands Elem-Secondary	8
Fifth	116	Gandhi Riya	A Cure For What "Ails" You: a Study of the Antibacterial Effects of Garlic	Glenlyon Norfolk School	9
Sixth	130	Nattan Telmer	Defining characteristics of bismuth telluride TEGs	Mount Douglas Secondary School	10
Seventh	104	Arlo Watts	Les Paraboles	Central Middle School	8

Senior Division

First	131	Zofka Svec	Designing a Photosynthetic Microbial Fuel Cell for Energy Production in Agricultural Applications	Glenlyon Norfolk School	10
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Junior Division

First	93	Wishva Kosgoda	Wash or Wipe: Toilet Hygiene a Missing Variable in Colorectal Cancer (CLC) Epidemiologic Studies	Arbutus Middle School	8
Second	101	Farida Abdoulaye	The Everyday Mask	St. Margaret's School	8
Third	129	Lily Brice	Slope Angle and Earthquakes: To what extent does vegetation limit soil erosion?	Glenlyon Norfolk School	9
Fourth	87	Alexander Croft	E-Waste	Pender Islands Elem-Secondary	8
Fifth	117	Tesnim Mtraoui	Generating Electricity from Bacterial Nanowires	St. Margaret's School	9

Intermediate Division

First	84	Raegan Van Raamsdonk	Neural Networks For Cancer Diagnosis	St. Michael's University School	7
Second	111	Madeleine Kelly	Forever Straws	St. Margaret's School	7
Third	30	Matthew Hinton	Wave of the Future: Underwater Wireless Communication Technology	Pender Islands Elem-Secondary	6
Fourth	34	Sebastian Dunn-Krahn	Does Medicine Grow on Trees?	Arbutus Middle School	6
Fifth	53	Sebastian Ellis-Gray	Graphite Showdown	St. Michael's University School	6

Elementary Division

First	18	Remi Dupuis	Do Electronics Drain Your Brain?	John Stubbs Elementary School	5
Second	49	Cohen Teschke	The Jastrow Illusion	Strawberry Vale Elementary	4
		Liam Teschke			5
Third	38	Aaron Maycock	Bridge Strength	Frank Hobbs Elementary	5
		Nolan McIlmoyle			
Fourth	47	Ben van Bakel	The Effect of Air Pressure on Basketball Bounce	Pender Islands Elem-Secondary	5
Fifth	10	Zoe Gill	Which Water?	Frank Hobbs Elementary	4
		Gemma Soper			5

57th Vancouver Island Regional Science Fair, April 2018

Major Awards

Rotary Award - 1st Overall

+ The President's Entrance Scholarship

+ Dean of Science Scholarship

132	Nicolas Fedrigo	Improving Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Claremont Secondary School	11
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AXYS Technologies Award - 2nd Overall

133	Hanqing (Albert) Yang	Control for Groups of Robots - Collaborative Rescue	Glenlyon Norfolk School	11
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Hajash Award - 3rd Overall

134	Melody Cheng	Purifying Water: Using citric acid-crosslinked beta-cyclodextrin polymer to remove bisphenol A	Glenlyon Norfolk School	10
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Schneider Electric Award - 4th Overall

100	Lauren Ohnona	Microplastics: In Our Local Shellfish	Pender Islands Elem-Secondary	8
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Starfish Medical Award - 5th Overall

116	Gandhi Riya	A Cure For What "Ails" You; a Study of the Antibacterial Effects of Garlic	Glenlyon Norfolk School	9
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Black Press Award - 6th Overall

130	Nattan Telmer	Defining characteristics of bismuth telluride TEGs	Mount Douglas Secondary School	10
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Enkin Award - 7th Overall

104	Arlo Watts	Les Paraboles	Central Middle School	8
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NSERC Recognition Award

116	Gandhi Riya	A Cure For What "Ails" You; a Study of the Antibacterial Effects of Garlic	Glenlyon Norfolk School	9
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Alexa Geminiano Award - *Students who are Overall Winners 3 or more times*

130	Nattan Telmer	Defining characteristics of bismuth telluride TEGs	Mount Douglas Secondary School	10
132	Nicolas Fedrigo	Improving Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Claremont Secondary School	11

Nathan Geminiano Award - *Students who are Overall Winners for a 2nd time*

134	Melody Cheng	Purifying Water: Using citric acid-crosslinked beta-cyclodextrin polymer to remove bisphenol A	Glenlyon Norfolk School	10
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Engineering Award

132	Nicolas Fedrigo	Improving Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Claremont Secondary School	11
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Environment Award

134	Melody Cheng	Purifying Water: Using citric acid-crosslinked beta-cyclodextrin polymer to remove bisphenol A	Glenlyon Norfolk School	10
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Provincial Awards

AI Appleton Worksafe Award

43 Matias Porter Fire Fighter Fabrics Pacific Christian School 5

BC Agriculture in the Classroom

34 Sebastian Dunn-Krahn Does Medicine Grow on Trees? Arbutus Middle School 6

BC Hydro Power Pioneers Award

132 Nicolas Fedrigo Improving Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches Claremont Secondary School 11

BC Game Developers Innovation Award

Intermediate 84 Raegan Van Raamsdonk Neural Networks For Cancer Diagnosis St. Michael's University School 7

Junior 118 Ines Khouider Finding Landmines; A Mine Detecting Robot St. Margaret's School 9

Senior 133 Hanqing (Albert)Yang Control for Groups of Robots - Collaborative Rescue Glenlyon Norfolk School 11

BC Nature

Elem. / Int. 35 Meredith Boyd Clever By Nature Pender Islands Elem-Secondary 6

Sr. / Jr. 129 Lily Brice Slope Angle and Earthquakes: To what extent does vegetation limit soil erosion? Glenlyon Norfolk School 9

BC Science Teachers' Award

91 Kate Smith Oil of Oregano: Nature's Germ Fighter Pacific Christian School 7

BCIC Young Innovator Scholarship

132 Nicolas Fedrigo Improving Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches Claremont Secondary School 11

Division for Advancement of Women in Engineering and Geoscience (DAWEG)

134 Melody Cheng Purifying Water: Using citric acid-crosslinked beta-cyclodextrin polymer to remove bisphenol A Glenlyon Norfolk School 10

Michael Crooks Prize (Physics)

104 Arlo Watts Les Paraboles Central Middle School 8

Society for Canadian Women in Science & Technology Award (SCWIST)

95 Eya Ibrahim A solution for pollution Selkirk Montessori School 8

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Provincial Awards - for nomination

Genome BC Award

Not awarded in 2018

WE Coates Award: Canadian Land Reclamation Association

100	Lauren Ohnona	Microplastics: In Our Local Shellfish	Pender Islands Elem-Secondary	8
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Locally Initiated Awards

Air & Waste Management Association

87	Alexander Croft	E-Waste	Pender Islands Elem-Secondary	8
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American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

130	Nattan Telmer	Defining characteristics of bismuth telluride TEGs	Mount Douglas Secondary School	10
59	Jonathan Attwell	Capturing the wind (Windtorch)	Arbutus Middle School	6

Association of Professional Biologists

51	Audrey Bieber Ailiyah Shehzad	Arbutus Middle School Trees	Frank Hobbs Elementary	5
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AXYS Technologies Sustainability Award

131	Zofka Svec	Designing a Photosynthetic Microbial Fuel Cell for Energy Production in Agricultural Applications	Glenlyon Norfolk School	10
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BC Institute of Agrologists Award

Elementary	10	Zoe Gill	Which Water?	Frank Hobbs Elementary	4
		Gemma Soper			5
Intermediate	114	Oscar Schuckel-Bailey	Nettoie Ton Gâchis : Enlever l'huile de l'eau	Central Middle School	7
Junior	127	Dana Mavrow	Is Hydroponics a Viable Growing Method: A Study on the Effects of pH on Spinach Seedlings	Glenlyon Norfolk School	9
Senior	131	Zofka Svec	Designing a Photosynthetic Microbial Fuel Cell for Energy Production in Agricultural Applications	Glenlyon Norfolk School	10

BC Hydro - Power Smart Award

133	Hanqing (Albert) Yang	Control for Groups of Robots - Collaborative Rescue	Glenlyon Norfolk School	11
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BC Hydro - South Island Award

130	Nattan Telmer	Defining characteristics of bismuth telluride TEGs	Mount Douglas Secondary School	10
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Locally Initiated Awards - continued

Biology Undergraduate Society (BUGS)

	34	Sebastian Dunn-Krahn	Does Medicine Grow on Trees?	Arbutus Middle School	6
	71	Isha Courty-Stephens Freya Walton	Don't Sour The Sourdough!	St. Michael's University School	6

Canadian Meteorological & Oceanographic Society

	97	Anna Erickson	Swimming in Acid; Possible Solutions for Ocean Acidification	St. Margaret's School	7
	135	Marisa Smith	Capturing Carbon; A Study of the Relationship of Carbon Dioxide and Calcium Oxide	Glenlyon Norfolk School	9
	16	Lucy Erickson	Our Plastic Oceans; what typ of plastic is best for the envirmnt	St. Margaret's School	5
	100	Lauren Ohnona	Microplastics: In Our Local Shellfish	Pender Islands Elem-Secondary	8

Carmanah Technologies - Clean Technology Award

	33	Isla Goertz Fionuala Stafford	Hunting for Darkness	Pender Islands Elem-Secondary	6
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Chemical Institute of Canada - VI Section

First	121	Corin Wallace	Colourimetric lactose detection using silver precipitates	Glenlyon Norfolk School	9
Second	124	Shreya Gandhi	OH MY GERD! Testing naturopathic remedies for gastroesophageal reflux disease	Glenlyon Norfolk School	9
Third	26	Bianca Zebrowski	What's the secret ingredient?	St. Michael's University School University School	6

Drs. Jane Browning & Dave Berry Award

	3	Nathan Hellner-Mestelman	Dimensions and Geometry	Selkirk Montessori School	5
	10	Zoe Gill Gemma Soper	Which Water?	Frank Hobbs Elementary	4 5

Drs. Rosemary & Walter Balfour Award

Winner	77	Yan, Jayden	The Organic Battery	St. Patrick's	4
Hon. Mention	32	Fawkes, Tori	Écofrappé	Central Middle	6

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Locally Initiated Awards - continued

Engineers & Geoscientists BC (Victoria Branch)

Senior

Winner	132	Nicolas Fedrigo	Improving Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Claremont Secondary School	11
Hon. Mention	133	Hanqing (Albert) Yang	Control for Groups of Robots - Collaborative Rescue	Glenlyon Norfolk School	11

Junior

Winner	117	Tesnim Mtiraoui	Generating Electricity from Bacterial Nanowires	St. Margaret's School	9
Hon. Mention	118	Ines Khouider	Finding Landmines; A Mine Detecting Robot	St. Margaret's School	9

Intermediate

Winner	113	Amy Hooper	The Sound of Science	St. Margaret's School	7
Hon. Mention	114	Oscar Schuckel-Bailey	Nettoie Ton Gâchis : Enlever l'huile de l'eau	Central Middle School	7

Elementary

Winner	16	Lucy Erickson	Our Plastic Oceans; what typ of plastic is best for the envirimnt	St. Margaret's School	5
Hon. Mention	38	Aaron Maycock	Bridge Strength	Frank Hobbs Elementary	5
		Nolan McIlmoyle			

Gordon Patterson Award

	29	Daniel Zhang	Funky Paper Planes	Arbutus Middle School	6
	52	Jack Dubé	Blocking Wifi	St. Michael's University School	6
		Jay Li			
	80	Shentae Beatty	Les Pendules	Central Middle School	7

Out of the Box Award

	118	Ines Khouider	Finding Landmines; A Mine Detecting Robot	St. Margaret's School	9
	126	Morgan Macdonald	Does listening to google maps while driving make you a safer driver?	Glenlyon Norfolk School	9

PARC Systems

	119	Cohen ter Heide	//+ Simplifying Programming	Home-school	9
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PsiChi UVic

First	67	Solange Dorsainvil-Lyons Ella McCartney	How does music affect your emotions?	Central Middle School	6
Second	99	Stafford, Ripley	Brainwaves	Pender Islands Elem-Secondary	8

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Locally Initiated Awards - continued

Rotary Club of Victoria

First	133	Hanqing (Albert)Yang	Control for Groups of Robots - Collaborative Rescue	Glenlyon Norfolk School	11
Second	74	Alaa Ibrahim	do electronics damage kids brains	Selkirk Montessori School	5
Hon. Mention	35	Meredith Boyd	Clever By Nature	Pender Islands Elem-Secondary	6
Hon. Mention	59	Jonathan Attwell	Capturing the wind (Windtorch)	Arbutus Middle School	6

Royal Astronomical Society of Canada, Victoria Chapter

	46	Dorian Neufeld	Occulation and its application in astronomy	Ecole Willows Elementary	5
	33	Isla Goertz	Hunting for Darkness	Pender Islands Elem-Secondary	6
		Fionuala Stafford			

Science Fair Alumni Award

	34	Sebastian Dunn-Krahn	Does Medicine Grow on Trees?	Arbutus Middle School	6
	59	Jonathan Attwell	Capturing the wind (Windtorch)	Arbutus Middle School	6
	127	Dana Mavrow	Is Hydroponics a Viable Growing Method: A Study on the Effects of pH on Spinach Seedlings	Glenlyon Norfolk School	9

Science Venture

	18	Remi Dupuis	Do Electronics Drain Your Brain?	John Stubbs Elementary School	5
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Schneider Electric - Women in STEM

	113	Amy Hooper	The Sound of Science	St. Margaret's School	7
	117	Tesnim Mtiraoui	Generating Electricity from Bacterial Nanowires	St. Margaret's School	9
	131	Zofka Svec	Designing a Photosynthetic Microbial Fuel Cell for Energy Production in Agricultural Applications	Glenlyon Norfolk School	10

Société Francophone de Victoria

	46	Dorian Neufeld	Occulation and its application in astronomy	Ecole Willows Elementary	5
	33	Isla Goertz	Hunting for Darkness	Pender Islands Elem-Secondary	6
		Fionuala Stafford			

Scientific Spirit Awards

	16	Lucy Erickson	Our Plastic Oceans; what typ of plastic is best for the envirimnt	St. Margaret's School	5
	68	Maryam Mtiraoui	Bacteria's Favorite Music	St. Margaret's School	6
	83	Zach Ingram	Est-que les chats intérieurs et extérieurs réagissent-ils différemment aux sons d'oiseaux?	Central Middle School	7
	85	Adam Bouallouche	Effets des temperatures froides sur le voltage des batteries.	École Victor-Brodeur	7

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Locally Initiated Awards - continued

Victoria Natural History Society

87	Alexander Croft	E-Waste	Pender Islands Elem-Secondary	8
129	Lily Brice	Slope Angle and Earthquakes: To what extent does vegetation limit soil erosion?	Glenlyon Norfolk School	9
104	Arlo Watts	Les Paraboles	Central Middle School	8
94	Chen, Kevin	Semi-sustainable Aquaponics	Colquitz Middle School	8

Chair's Awards

University of Victoria Education Chairs' Award

18	Remi Dupuis	Do Electronics Drain Your Brain?	John Stubbs Elementary School	5
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University of Victoria Engineering Chairs' Award

54	Damon Bains	Launching Newton	St. Michael's University School	6
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University of Victoria Science Chairs' Award

93	Wishva Kosgoda	Wash or Wipe: Toilet Hygiene a Missing Variable in Colorectal Cancer (CLC) Epidemiologic Studies	Arbutus Middle School	8
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University of Victoria Social Science Chairs' Award

101	Farida Abdoulaye	The Everyday Mask	St. Margaret's School	8
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Business Awards

Robert Bateman Centre

14	Olivia Rathburn	Nuts for Arachnids	Pacific Christian School	5
49	Cohen Teschke	The Jastrow Illusion	Strawberry Vale Elementary	4
	Liam Teschke			5
83	Zach Ingram	Est-que les chats intérieurs et extérieurs réagissent-ils différemment aux sons d'oiseaux?	Central Middle School	7
62	Saul Zidulka-Bejcek	Doggie Wheels	St. Michael's University School	6
55	Abby McLeish-Shaw	My Mom Tried To Eat My Science Experiment	St. Michael's University School	6

Canadian College of Performing Arts

104	Arlo Watts	Les Paraboles	Central Middle School	8
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Cordova Bay Golf

2	Anthony Cheng	Coding with Scratch	St. Patrick's	4
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CVS Sightseeing

105	Kiera McMeekin	Are You Paying Attention?	St. Margaret's	8
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Dance Victoria

134	Melody Cheng	Purifying Water: Using citric acid-crosslinked beta-cyclodextrin polymer to remove bisphenol A	Glenlyon Norfolk School	10
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IMAX theatre

53	Sebastian Ellis-Gray	Graphite Showdown	St. Michael's University School	6
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Maritime Museum

13	Saanvi Reddy Katireddy	Hey water droplet, how tensed are you?	Campus View	4
27	Soie Liao-Briere	Filtering Soapy Water	St. Michael's University School	6
	Sophia Tsepenyuk			
31	Keegan Newnham-Boyd	Super Charged	Central Middle School	6
	Brayden Vermette			
63	Lilah Hope Tucker	Densité	Central Middle School	6
	Erica Ngo			

Miniature World

9	Sadie MacNeill	Reading gadget	Ecole Willows	4
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Munro's Books

10	Zoe Gill	Which Water?	Frank Hobbs Elementary	4
	Gemma Soper			5

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Business Awards - continued

Ocean River Sports

116	Riya Gandhi	A Cure For What "Ails" You; a Study of the Antibacterial Effects of Garlic	Glenlyon Norfolk School	9
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Pacific Opera Victoria

131	Zofka Svec	Designing a Photosynthetic Microbial Fuel Cell for Energy Production in Agricultural Applications	Glenlyon Norfolk School	10
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Quarky Science

111	Madeleine Kelly	Forever Straws	St. Margaret's School	7
40	Nicholas Croft	Hope Bay Bird Sanctuary	Pender Islands Elem-Secondary	5
22	Naomi Corwin	There's a new Serif in town!	St. Margaret's School	6
37	Jude Edgington	The 5 Second Rule	Christ Church Cathedral	6
	Luka Hurschler			
78	Haimavathy Saibish	Wi Fi's Effect on Plant Growth	St. Margaret's School	5
36	Alexis Kuo	Medi Robot	Christ Church Cathedral	6
82	Gemma Costi	Comprimaison de Neige! (Snow Compression!)	Central Middle School	7

Royal BC Museum

108	Grace Poole	How different levels of copper affect hair color	Glenlyon Norfolk School	9
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Russell Books

123	Gabrielle MacPherson	The Future of Water Purification	Glenlyon Norfolk School	9
128	Tara Golonka	The Solar Bottle Bulb	Glenlyon Norfolk School	9

Shaw Centre for the Salish Sea

107	Emily Goodman	How do Drinks and Fluoride Impact Your Teeth?	Christ Church Cathedral	8
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Tanners Books

65	Anika Delichte	Screens & Sleep	St. Michael's University School	6
122	Kelley Poole	Lift of an airplane wing when the bank angle is increased	Glenlyon Norfolk School	9

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Business Awards - continued

Victoria Bug Zoo

8	Cadence Maclean Grace Wallis	Kitty Catnip	Frank Hobbs Elementary	4
12	Veronica Konorova	Roof Cleaning	Frank Hobbs Elementary	4
14	Olivia Rathburn	Nuts for Arachnids	Pacific Christian School	5
18	Remi Dupuis	Do Electronics Drain Your Brain?	John Stubbs Elementary School	5
44	Malachi Friebe	Wholly Smokes	Pacific Christian School	5
6	Anthony Pan	A Secret in a Picture	Torquay Elementary	4
49	Cohen Teschke Liam Teschke	The Jastrow Illusion	Strawberry Vale Elementary	4 5

Victoria Butterfly Gardens

67	Solange Dorsainvil-Lyons Ella McCartney	How does music affect your emotions?	Central Middle School	6
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Victoria Harbour Ferry

114	Oscar Schuckel-Bailey	Nettoie Ton Gâchis : Enlever l'huile de l'eau	Central Middle School	7
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Victoria Harbourcats

30	Matthew Hinton	Wave of the Future: Underwater Wireless Communication Technology	Pender Island	6
109	Katie Cooper	Memorable Strategies	Pender Islands	9
135	Marisa Smith	Capturing Carbon; A Study of the Relationship of Carbon Dioxide and Calcium Oxide	Glenlyon Norfolk School	9

Victoria Symphony

Teacher Award	- Steve Dunsmuir	Pender Island School - SD 41		
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WILEY

24	Sophia Eiley Ava Nisbet	Urban Turbine	St. Michael's University School	6
99	Ripley Stafford	Brainwaves	Pender Islands Elen-Secondary	8
112	Katie Tinis	I'm Dreaming Of A White Christmas	St. Margaret's	7
120	Anders Woodruff	Effect of CPU and RAM on FPS	Glenlyon Norfolk School	9

UVIC WOMEN IN SCIENCE

134	Melody Cheng	Purifying Water: Using citric acid-crosslinked beta-cyclodextrin polymer to remove bisphenol A	Glenlyon Norfolk School	10
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