

## 63rd Vancouver Island Regional Science Fair, April 2024

### Overall Winners

First	36	Sun, Zhuola	Designing a More Efficient Wind Turbine	Queen Margaret's School	10
Second	67	Costa Telmer, Maiara	The Future of Composites	Glenlyon Norfolk School	9
Third	27	Stewart, Zane	Optimisation of ionic thruster	Claremont secondary	9
Fourth	76	Lee, Richard	What Makes Cities Lose Their Cool?	Mount Douglas Secondary School	12
Fifth	56	Adamson, Finn	Pain Science and the Peak-end Rule	Glenlyon Norfolk School	9
Sixth	75	Cheng, Jason	Cleaner Sponges, Greener Planet	Queen Margaret's School	11
Seventh	71	Chan, Kaitlyn	Predicting Surgical Patient Outcomes	Glenlyon Norfolk School	10

### Division Winners

#### Senior (Gr. 10-12)

**Prizes:** Victoria Harbourcats x 3; Blackball Ferry, Butchart Gardens

First	73	Hellner-Mestelman, Nathan	High and Dry: Stress Hormones and the Survival of Plants in Space	Mount Douglas Secondary School	11
Second	30	Fournier, Margaret Miller, Alaina	Discarded drywall as an additive to improve plant growth in low pH environments and in degraded soils	Esquimalt High School	9 10
Third	72	Papps, Evan	Reanalysis of Multi-Stellar Systems	Glenlyon Norfolk School	11
Fourth	34	Chankhamhaengdech, Manuchaya	Joint Distribution Refrigerated Truck	Mount Douglas Secondary	10
Fifth	33	Dai, Ronsher	Measurement and determination of common sources of interference for radio astronomy	Mount Douglas Secondary School	10

#### Junior (Gr. 8-9)

**Prizes:** Quarky Science x 2; Cordova Bay Golf x 2; Miniature World

First	57	Brunkan, Josephine	Temperature shift correlation with the probability of Hereditary Angioedema (HAE) attacks	Glenlyon Norfolk School	9
Second	54	Cormie, Madeline	Pizza Precision	St. Michaels University School	8
Third	63	Morley, Reagan	Fantastic Bioplastic: Using Seaweed Bioplastic to Create Biodegradable Toothbrushes	Christ Church Cathedral School	8
Fourth	26	Saklas, Alexander	Soccer Vision	Glenlyon Norfolk School	9
Fifth	44	Ross, Ewan	Visualizing Speed: Instructed Imagery in Competitive Sports	St. Michaels University School	8

## 63rd Vancouver Island Regional Science Fair, April 2024

### Intermediate (Gr. 6-7)

**Prizes:** Quarky Science x 5

First	50	Pereira, Isaiah	SmartSipper: The Digital Water Bottle	St. Michael's University School	6
Second	18	Nie, Isaac	Optimizing Home-Friendly Wind Turbine Efficiency through Varied Turbine Height, Blade Design, and Local Wind Speed	Arbutus Global Middle School	7
Third	41	Behn, Silke Craig, Annabelle	Let's Face it	St. Michaels University School	7 7
Fourth	45	Bai, Yingshan Buckley, Ella	The Scoop on the Stroop	St. Michaels University School	7 7
Fifth	37	Allan, Natalie	Beans Beans the Musical Fruit	Selkirk Montessori	6

### Elementary (Gr. 4-5)

**Prizes:** Quarky Science x 5

First	21	Cherrington-Green, Petra	Never water plants again!	Salt Spring Elementary	5
Second	3	Muthui, Hekima	Renewable vs Non Renewable Energy	Pacific Christian School	5
Third	20	Syyong, Nathan	Improving Plant Growth Using Homemade Volcanic Soil	Christ Church Cathedral School	5
Fourth	5	Stenberg, Cotton	Are You Cold Yet?	Pacific Christian School	5
Fifth	13	Helmus, Theo	Farting Fruits: Fruits That Give Off Ethylene Gas	Pacific Christian School	5

## 63rd Vancouver Island Regional Science Fair, April 2024

### Major Awards

#### Overall Best Project Winners

##### 1st Overall – Rotary Award

+ Rotary Club of Victoria-Saanich \$2000 Scholarship

+ UVic Engineering Award

36	Sun, Zhuola	Designing a More Efficient Wind Turbine	Queen Margaret's School	10
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##### 2nd Overall – StarFish Award

+ UVIC Environment Award

67	Costa Telmer, Maiara	The Future of Composites	Glenlyon Norfolk School	9
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##### 3rd Overall – JASCO Award

27	Stewart, Zane	Optimisation of ionic thruster	Claremont secondary	9
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##### 4th Overall – Schneider Electric

+ The UVic President's Award

+ Dean of Science Scholarship

76	Lee, Richard	What Makes Cities Lose Their Cool?	Mount Douglas Secondary School	12
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##### 5th Overall – Eupraxia Pharmaceuticals Award

+ UVic Science Chairs' Award

56	Adamson, Finn	Pain Science and the Peak-end Rule	Glenlyon Norfolk School	9
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##### 6th Overall – Stantec Award

+ UVic Engineering Chairs' Award

75	Cheng, Jason	Cleaner Sponges, Greener Planet	Queen Margaret's School	11
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##### 7th Overall – Enkin Award

71	Chan, Kaitlyn	Predicting Surgical Patient Outcomes	Glenlyon Norfolk School	10
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### Geminiano Awards

##### Nathan Geminiano Awards - Overall Winner 2 times

+ Blackball Ferry Prize

71	Chan, Kaitlyn	Predicting Surgical Patient Outcomes	Glenlyon Norfolk School	10
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76	Lee, Richard	What Makes Cities Lose Their Cool?	Mount Douglas Secondary School	12
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##### Alexa Geminiano Awards - Overall Winner 3 or more times

None awarded in 2024

## 63rd Vancouver Island Regional Science Fair, April 2024

### University of Victoria Sponsored Awards

#### University of Victoria Engineering Award

36	Sun, Zhuola	Designing a More Efficient Wind Turbine	Queen Margaret's School	10
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#### University of Victoria Environment Award

67	Costa Telmer, Maiara	The Future of Composites	Glenlyon Norfolk School	9
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### Science Fair Foundation of BC Awards

#### AbCellera TechBio Award

71	Chan, Kaitlyn	Predicting Surgical Patient Outcomes	Glenlyon Norfolk School	10
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#### BC Agriculture in the Classroom Award

65	Murray, Charlie	Bee Safari; Bees on the Hunt for a Perfect Treat	Glenlyon Norfolk School	9
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#### BC Game Developers Innovation Award

Senior	72	Papps, Evan	Reanalysis of Multi-Stellar Systems	Glenlyon Norfolk School	11
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Junior	26	Saklas, Alexander	Soccer Vision	Glenlyon Norfolk School	9
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Junior	66	Holland, Paul	DALL-E vs. Midjourney: Which One Wins?	St. Michaels University School	8
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#### BC Hydro Power Pioneers Award

27	Stewart, Zane	Optimisation of ionic thruster	Claremont secondary	9
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#### BC Science Teachers' Award

56	Adamson, Finn	Pain Science and the Peak-end Rule	Glenlyon Norfolk School	9
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#### Engineers & Geoscientists of BC (EGBC) Award

Senior	36	Sun, Zhuola	Designing a More Efficient Wind Turbine	Queen Margaret's School	10
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Junior	67	Costa Telmer, Maiara	The Future of Composites	Glenlyon Norfolk School	9
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Intermediate	50	Pereira, Isaiah	SmartSipper: The Digital Water Bottle	St. Michael's University School	6
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Elementary	5	Stenberg, Cotton	Are You Cold Yet?	Pacific Christian School	5
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## 63rd Vancouver Island Regional Science Fair, April 2024

### Genome BC Award

73	Hellner-Mestelman, Nathan	High and Dry: Stress Hormones and the Survival of Plants in Space	Mount Douglas Secondary School	11
57	Brunkan, Josephine	Temperature shift correlation with the probability of Hereditary Angioedema (HAE) attacks	Glenlyon Norfolk School	9

### Michael Crooks Physics Award

72	Papps, Evan	Reanalysis of Multi-Stellar Systems	Glenlyon Norfolk School	11
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### Sanofi Biogenius Award

40	Pyper, Bryn	Feasibility of Bioluminescent Fungi as Night Lights	64Go	7
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### Julia Lane Award

36	Sun, Zhuola	Designing a More Efficient Wind Turbine	Queen Margaret's School	10
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### Women in Engineering & Geoscience

29	Ding, Yiyuan	Safeguarding Human Health with Electromagnetic Radiation-Proof Phone Cases	Glenlyon Norfolk School	9
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### SCWIST Award

29	Ding, Yiyuan	Safeguarding Human Health with Electromagnetic Radiation-Proof Phone Cases	Glenlyon Norfolk School	9
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### Vancouver RASC Martha Pearse Award

27	Stewart, Zane	Optimisation of ionic thruster	Claremont secondary	9
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## 63rd Vancouver Island Regional Science Fair, April 2024

### Provincial Awards - for nomination; application is to be made by student to SFFBC

#### Genome BC Scholarship Nomination

73	Hellner-Mestelman, Nathan	High and Dry: Stress Hormones and the Survival of	Mount Douglas Secondary School	11
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#### Julia Lane Scholarship Nomination

75	Cheng, Jason	Cleaner Sponges, Greener Planet	Queen Margaret's School	11
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#### Ministry of Transportation & Infrastructure Scholarship Nomination

76	Lee, Richard	What Makes Cities Lose Their Cool?	Mount Douglas Secondary School	12
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### Organization and Individual Awards and Prizes

#### American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

Gr. 4-8	1	Kozlowski, Oswald	What is the most ideal fossil fuel for humans and the environment	Ecole George Jay Elementary	4
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Gr. 9-12	68	Dhrolia, Salina	Hydroelectric energy	Glenlyon Norfolk School	9
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#### ASL Environmental Services Award

38	Toogood, Chloe	Using Natural Sorbents to Absorb Oil From Our Oceans	Westmont	6
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18	Nie, Isaac	Optimizing Home-Friendly Wind Turbine Efficiency	Arbutus Global Middle School	7
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#### Association of Professional Biology Award

19	Jess, Lulu	Can invasive species be used as fertilizer for vegetables, and if so, which works best?	Christ Church Cathedral School	5
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58	Yang, Deborah	Exploring Natural Remedies	Glenlyon Norfolk School	9
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#### Drs. Rosemary & Walter Balfour Award

1st	23	Davies, Hadley	Cookies for All!	Pacific Christian School	5
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2nd	24	Grant, Brady	Spiraling into Illusions	Westmont Montessori	4
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		Kabani, Aarish			5
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#### Drs Jane Browning & Dave Berry Award

4	Petropoulos-Varelis, Georgia	Do your clothes decompose?	Pacific Christian School	5
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61	Nadra, Mia	Spray It Right!	St. Michaels University School	8
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## 63rd Vancouver Island Regional Science Fair, April 2024

### BC Hydro - Power Smart Award (Plaque)

36	Sun, Zhuola	Designing a More Efficient Wind Turbine	Queen Margaret's School	10
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### BC Hydro - Power Pioneers - South Island Office Award

64	Kanji, Sofia	Can creating a plant-powered LED light help solve energy efficiency, improve the impact on the environment, and provide accessibility to everyone?	Glenlyon Norfolk School	9
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### BC Hydro - Book Award

11	Cassetti, Samuele Makumbirofa, Waishe	Maglev Trains	Christ Church Cathedral	5
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### BC Institute of Agrologists (BCIA) Award

73	Hellner-Mestelman, Nathan	High and Dry: Stress Hormones and the Survival of Plants in Space	Mount Douglas Secondary School	11
21	Cherrington-Green, Petra	Never water plants again!	Salt Spring Elementary	5
30	Fournier, Margaret Miller, Alaina	Discarded drywall as an additive to improve plant growth in low pH environments and in degraded soils	Esquimalt High School	9
22	Scott, Bless	Is Rain Water Safe to Drink?	West-Mont Montessori	4

### BUGS (Biology Undergraduate Society) Award

65	Murray, Charlie	Bee Safari; Bees on the Hunt for a Perfect Treat	GNS	9
30	Fournier, Margaret   Miller, Alaina	Discarded drywall as an additive to improve plant growth in low pH environments and in degraded soils	Esquimalt High School	9

### Carmanah Technologies - Clean Technology Award

67	Costa Telmer, Maiara	The Future of Composites	Glenlyon Norfolk School	9
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### Dr Zonk Award (Bonnie Martin Restaurant sponsor)

13	Helmus, Theo	Farting Fruits: Fruits That Give Off Ethylene Gas	Pacific Christian School	5
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## 63rd Vancouver Island Regional Science Fair, April 2024

### Canadian Meteorological & Oceanographic Society (CMOS) Award

76	Lee, Richard	What Makes Cities Lose Their Cool?	Mount Douglas Secondary School	12
63	Morley, Reagan	Fantastic Bioplastic: Using Seaweed Bioplastic to Create Biodegradable Toothbrushes	Christ Church Cathedral School	8
38	Toogood, Chloe	Using Natural Sorbents to Absorb Oil From Our Oceans	Westmont	6
5	Stenberg, Cotton	Are You Cold Yet?	Pacific Christian School	5

### Gordon Patterson Award

9	Potts, Brixton Willock, Ethan	Newton's Cradle	Lighthouse Christian Academy	5 5
41	Behn, Silke Craig, Annabelle	Let's Face it	St. Michaels University School	7 7

### IPA Therapeutics Award

35	Curtis, Ethan	Robot Researchers	St. Michaels University School	10
58	Yang, Deborah	Exploring Natural Remedies	Glenlyon Norfolk School	9

### Ocean Network Canada Award

30	Fournier, Margaret Miller, Alaina	Discarded drywall as an additive to improve plant growth in low pH environments and in degraded soils	Esquimalt High School	9 10
38	Toogood, Chloe	Using Natural Sorbents to Absorb Oil From Our Oceans	Westmont	6

### Rotary Club of Victoria-Saanich Environment Award

1st	30	Fournier, Margaret Miller, Alaina	Discarded drywall as an additive to improve plant growth in low pH environments and in degraded soils	Esquimalt High School	9 10
2nd	20	Syyong, Nathan	Improving Plant Growth Using Homemade Volcanic Soil	Christ Church Cathedral School	5
3rd	37	Allan, Natalie	Beans Beans the Musical Fruit	Selkirk Montessori	6
4th	55	Moon, Caitlyn	The Unappetizing Obstacles : Consuming Microplastic Particles	Central Middle School	8



## 63rd Vancouver Island Regional Science Fair, April 2024

### Royal Astronomical Society of Canada, Victoria Chapter (RASC) Award

72	Papps, Evan	Reanalysis of Multi-Stellar Systems	Glenlyon Norfolk School	11
33	Dai, Ronsher	Measurement and determination of common sources of interference for radio astronomy	Mount Douglas Secondary School	10

### Schneider Electric - STEAM Awards

18	Nie, Isaac	Optimizing Home-Friendly Wind Turbine Efficiency through Varied Turbine Height, Blade Design, and Local Wind Speed	Arbutus Global Middle School	7
54	Cornie, Madeline	Pizza Precision	St. Michaels University School	8
57	Brunkan, Josephine	Temperature shift correlation with the probability of Hereditary Angioedema (HAE) attacks	Glenlyon Norfolk School	9
50	Pereira, Isaiah	SmartSipper: The Digital Water Bottle	St. Michael's University School	6
41	Behn, Silke Craig, Annabelle	Let's Face it	St. Michaels University School	7 7
3	Muthui, Hekima	Renewable vs Non Renewable Energy	Pacific Christian School	5

### Science Fair Alumni Award

22	Scott, Bless	Is Rain Water Safe to Drink?	West-Mont Montessori	4
37	Allan, Natalie	Beans Beans the Musical Fruit	Selkirk Montessori	6
29	Ding, Yiyuan	Safeguarding Human Health with Electromagnetic Radiation-Proof Phone Cases	Glenlyon Norfolk School	9
32	Yakimovitch, Teagan	Ducks & Memory	Queen Margaret's School	10

## 63rd Vancouver Island Regional Science Fair, April 2024

### Victoria Natural History Society Award

63	Morley, Reagan	Fantastic Bioplastic: Using Seaweed Bioplastic to Create Biodegradable Toothbrushes	Christ Church Cathedral School	8
64	Kanji, Sofia	Can creating a plant-powered LED light help solve energy efficiency, improve the impact on the environment, and provide accessibility to everyone?	Glenlyon Norfolk School	9
65	Murray, Charlie	Bee Safari; Bees on the Hunt for a Perfect Treat	Glenlyon Norfolk School	9
30	Fournier, Margaret	Discarded drywall as an additive to improve plant growth in low pH environments and in degraded soils	Esquimalt High School	9
	Miller, Alaina			10
32	Yakimovitch, Teagan	Ducks & Memory	Queen Margaret's School	10
73	Hellner-Mestelman, Nathan	High and Dry: Stress Hormones and the Survival of Plants in Space	Mount Douglas Secondary School	11
75	Cheng, Jason	Cleaner Sponges, Greener Planet	Queen Margaret's School	11

### Victoria Symphony Award (to a teacher for special efforts)

Bullock, Sophia	George Jay Elementary School
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## 63rd Vancouver Island Regional Science Fair, April 2024

### Business Awards

#### Butterfly Gardens

6	Albers, Juniper Klymak, Felix	What slime deactivates the fastest?	George Jay Elementary School	5 5
8	Simons, Saul	Blast Off!	Westmont Montessori	5
46	Stooksbury, Shep	Exploring Electrolyte Drink Conductivity	St. Michael's University School	6
48	Price, Cleo	Colouring your feelings.	St. Michael's University School	7

#### Victoria Bug Zoo

37	Allan, Natalie	Beans Beans the Musical Fruit	Selkirk Montessori	6
20	Syyong, Nathan	Improving Plant Growth Using Homemade Volcanic Soil	Christ Church Cathedral School	5
2	Baiomy, Adam	Renewable Energy VS Non-Renewable Energy	George Jay Elementary	5
43	Kumar, Kinara	Made-Up Make-Up	Christ Church Cathedral School	8

#### Quarky Science/Two Otters

49	Franco, Lily Gomori, Laurel	Taking Notes	St. Michaels University School	7 7
47	Hamilton, Iben Xu, Isabella	Think Personality	St. Michaels University School	7 7
42	Fisher-Franke, Amelia Byrd	Skin Microflora Cultivation	St. Michaels University School	8
10	Han, Fredric	Self-driving car	Christ Church Cathedral School	5
12	Couto, Anthony	From Rail To Maglev Train	Lighthouse Christian Academy	4
25	Dudenas, Alex	Testing Soundproofing Materials	Westmont Montessori	8
39	Bartosik, Ellie Macmillan-Thomas, Imogen	How Can Fungi Help us Lead a More Sustainable Life?	Cedar Hill Middle School	7 7
16	Belke, August Arun, Rakshith	Background Noise and Memory Retention	St. Michaels University School	6 6
17	Walsh, Yve Petronis, Sophia	Gaming Minds	Westmont Montessori	6 6

## 63rd Vancouver Island Regional Science Fair, April 2024

### Shaw Centre for the Salish Sea

69	Ramandev, Shreesha	Oral Health vs. Chewing Gum	Glenlyon Norfolk School	10
70	Li, Youlan	Unlocking the Mind's Eye: Exploring Vividness of Visual Imagery Questionnaire (VVIQ)'s Relationship with Sensory Processing Sensitivity (SPS)	St. Michaels University School	10
74	Ibrahim, Alaa	A Comparative Analysis of Natural and Synthetic Antacids	St. Margarets school	11
60	Yee, Michaela	The Five Second Rule: True or False?	St. Michaels University School	8

### Maritime Museum

59	Dukes, Elsa	Comparing Molecules in Food Coloring	St. Michaels University School	8
51	Martin, Sydney Wang, Serena	The Warm-Up Factor	St. Michaels University School	8 8
52	Cheung, Farrah	Artificial vs. Natural Protein	St. Michaels University School	8
31	Zhang, Jason	Electrically Shocked! Discovering the Electrical Neurological Responses to Unpredicted Feedback using Electroencephalography	Mount Douglas Secondary	10
28	Huang, Betty Pai, Lisa	Save The Slice	St. Michaels University School	8 8

### Cosmic Wonder Book

15	Zwicky, Sophie	Save The Glaciers	Christ Church Cathedral School	6
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