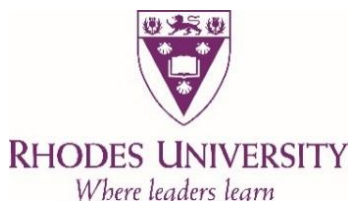


A big thank you to our sponsors!

Expo for Young Scientists Title Sponsor



Grahamstown Regional Final Sponsors



Thank you to our sponsors, committee, moderators and judges

Eskom Expo for Young Scientists and Scifest Africa values your contribution to our ongoing efforts to delight, inform, challenge and inspire through the delivery of engaging and thought-provoking experiences in science.

Message from Eskom Expo for Young Scientists International Science Fair Director

Dear young scientists, teachers, parents and volunteers,

Congratulations to all young scientists on reaching the regional level of the Eskom Expo for Young Scientists. We acknowledge your efforts and applaud your dedication and enthusiasm. As young scientists you are perfectly positioned to shape the landscape of our future. Eskom Expo for Young Scientists provides more than just a platform to showcase your talent and reward excellence – it provides a playground for you to explore your creative genius beyond the classroom walls. It is here that your ideas are refined, your imagination expanded and boundaries pushed. The possibilities are endless. The solutions you propose today should generate new questions tomorrow, taking your research to new levels. A scientist's work is never done! So use this opportunity to develop your ideas as you engage with the numerous resource persons at your Expo. Develop the skill of identifying problems but think in terms of solutions. This invaluable life skill is transferable to all areas of your life. This is important because we want you to become well rounded, responsible adults who contribute positively to society.

You are now part of a community of young scientists made of learners from diverse backgrounds with a multitude of talents, further enriching your experience. This is significant for young scientists because science is more than an intellectual experience, it is attitudinal. It builds character and shapes the way you engage with the world. But most of all, science is fun! Your Expo experience should be enjoyable and exciting, where new friendships and bonds are forged. Most importantly, take your experiences back to your schools and let the fun of science become infectious! It is at schools and in our homes that the seeds of cognition are sown. Hence it is imperative that we acknowledge the contribution of our teachers and parents. Your support and guidance has provided valued opportunities and helped steer these young minds towards infinite possibilities, beyond our imagination. We commend your efforts and your tireless commitment to shaping the lives of our young scientists and urge you to continue supporting them on their journey, which has only just begun.

Eskom Expo for Young Scientists has been built on the rock of the efforts of numerous volunteers. These volunteers have made our Expo the successful institution it is now. Our volunteers continue to give their time and energy to Expo, so generously. Hence it is important for all participants, teachers and parents to acknowledge and support our volunteers who make Eskom Expo for Young Scientists the phenomenal success it is, locally and internationally. Of special mention, has to be the key drivers of Expo in the Regions: our volunteer Regional Science Fair Directors and their diligent committee members. Together with our appointed Provincial Coordinators we are able to reach more learners in more areas and accomplish more each year, through our expansion strategies. But all of this would not be possible without the support of our sponsors. We want to express our gratitude to our main sponsor, Eskom for their commitment to the development of our young scientists, who will be part of the solution to the global challenges we face. Eskom's foresight to invest in our future is indeed admirable. Finally, we acknowledge the invaluable contribution and support of Regional Sponsors, too numerous to list here. We are grateful for your generous patronage and implore you to continue supporting our young scientists.

**Krishnie Naidoo
Director: International Science Fair
Eskom Expo for Young Scientists**

**ESKOM EXPO FOR YOUNG SCIENTISTS
2017 GRAHAMSTOWN REGIONAL FINAL
CHEMICAL AND PHARMACEUTICAL SCIENCES BUILDING
RHODES UNIVERSITY
ARTILLERY ROAD**

OFFICIAL PROGRAMME

Friday, 4 August 2017

17h00-19h00 **Registration and Set-up**

Chemistry Laboratory
Lower Ground Floor

Saturday, 5 August 2017

07h00-08h30 **Registration and Set-up**

Chemistry Laboratory
Lower Ground Floor

08h30-09h00 **Welcome and Orientation**

Zoology Major Lecture Theatre
Ground Floor
Biological Sciences Building
Rhodes University
Artillery Road

09h00-11h15 **Judging and Public Viewing (Learners to remain with their projects)**

Chemistry Laboratory
Lower Ground Floor
Pharmacy Laboratory
Ground Floor

10h30-10h45 **Tea (Learners)**

Pharmacy Laboratory Foyer
Ground Floor

11h30-12h30 **Workshops / Guided Tours / Site Visits (Learners only)**

(Please check the timetable included at the end of this programme for the venue of your event.)

11h30-12h30 **Educators Academy (Educators only)**

Chemistry Major Lecture Theatre
Ground Floor

- 12h30-13h00 **Subject Choice Career Talk (Grade 7 to 9)**
- Chemistry Major Lecture Theatre
Ground Floor
- 12h30-13h00 **Chemistry 2 for You Demo Stations (Grade 10 to 12)**
- Foyer outside Chemistry Major Lecture Theatre
Ground Floor
- 13h00-14h00 **Lunch**
- Learners: Pharmacy Laboratory Foyer, Ground Floor
Judges and Educators: Chemistry Tea Room, Second Floor
- 14h00-14h30 **Official Photograph (Committee Members and Learners Only)**
- Foyer
Ground Floor
- 14h30-15h15 **Presentations of Top 5 Projects**
- Chemistry Major Lecture Theatre
Ground Floor
- 15h15-16h30 **Prize-giving and Photographs of National Finalists (ISF), Top 5 Projects, Special Award Winners and Medal Winners**
- Chemistry Major Lecture Theatre
Ground Floor
- 16h30-17h00 **Briefing session for Finalists selected for the International Science Fair**
- Chemistry Major Lecture Theatre
Ground Floor
- 17h00 **Strike Projects**

PARTICIPANT WORKSHOP/ GUIDED TOUR / SITE VISIT

Please meet your Chaperone in the Chemistry Major Lecture Theatre Foyer, Ground Floor,
Chemical and Pharmaceutical Sciences Building at 11h20.

Time	Group	Topic	Venue
11h30 – 12h30	A	Geology Underfoot or Overhead?	Laboratory Geology Department
	B	Biochemistry & Microbiology How to catch a Crook	Room 006 Biological Sciences Building
	C	Computer Science Hip hop to Computer Science	Laboratory Hamilton Building
	D	RUBIC Speed-date-a-Scientist	First Floor Foyer Biological Sciences Building
	E	DIFS Fishy Fish Farm and a Microscope	Fish Farm Ichthyology Department
	F	Pharmacy Magic Show	Zoology Minor Biological Sciences Building
	G	Chemistry Laser light in nanotechnology	Chemistry Minor Lecture Theatre First Floor
	H	Chemistry Mg-HCl Experiments	Chemistry Lab First Floor
	I	Literary Heritage <i>Tour de Science</i> at NELM	National English Literary Museum 25 Worcester Street
	J	19 th Century Printing and Press <i>Tour de Science</i> at the Eastern Star	Eastern Star Gallery Printing and Press Museum 4 Anglo African Street

Entries

Proj. No.	Project Title	School Name	Grade
Agricultural Sciences			
AGR01	Best manure fertiliser		
	Sambesiwe Ngcaku	Nathaniel Pamla High School	11
AGR02	Different kinds of soil		
	Namhla Geelbooi	Makana Public Primary School	7
	Ntombebhongo Mthathi	Makana Public Primary School	7
AGR03	Growing hemp to alleviate poverty in South Africa		
	Troy Birch	Port Alfred High School	11
AGR04	Milk production depending on grass fertility		
	Britney Hawkins	Port Alfred High School	11
	Siobhan Kukard	Port Alfred High School	11
AGR05	Pop the crop		
	Beth Rennie	The Diocesan School for Girls	9
	Jozie Wright	The Diocesan School for Girls	9
AGR06	Soil Community		
	Esethu Mbane	Mary Waters High School	11
	Azola Ndawuni	Mary Waters High School	11
AGR07	Types of water for growth of radishes		
	Mwaka Machila	Kingswood College	9
	Kasonde Mutale	Kingswood College	9
AGR08	What's the best natural herbicide?		
	Yolanda Joseph	Victoria Girls' High School	10

Animal and Veterinary Science, including Marine Animals

AVM09	Breeding success of grass owls		
	Carrisa Henning	Hoërskool P.J. Olivier	6
	Leandri van Vuuren	Hoërskool P.J. Olivier	6
AVM10	Different marine animals		
	Jessica Knoetzee	Hoërskool P.J. Olivier	6

Chemistry and Biochemistry

CHB11	Decreasing the amount of heavy metals in contaminated water using natural, bio- absorbent materials		
	Leah Davaren	Diocesan School for Girls	10
	Lauren Poole	Diocesan School for Girls	10
CHB12	Effective tennis court cleaner		
	Jamie Delpart	Victoria Girls' High School	11
	Ursula Hanton	Victoria Girls' High School	11
CHB13	Investigating the optimum amount of aluminium sulphate needed to remove turbidity from dam water		
	Kate Jackson-Moss	Victoria Girls' High School	10
CHB14	The effects of Aloe Vera gel, yeast and honey on the development of mould on food		
	Mwango Kondolo	Kingswood College	9
	Erin Meikle	Kingswood College	9
CHB15	The relationship between conductivity and temperature		
	Masixole Mjakula	Healdtown Comprehensive High School	11
CHB16	Skincare Lotion		
	Xolisa Mboyiya	Sipho Camagu High School	8

Proj. No.	Project Title	School Name	Grade
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Earth Science (Geography, Geology, Oceanography) and Housing and Settlement Studies

EAR17	Ceiling height and room temperature, is there a relationship? Naledi Petse	Victoria Girls' High School	11
EAR18	The model of a moon Mava Dlephu	T.E.M Mrwetyana High School	10
EAR19	The theory of the rainbow Nikhayela Mxube	T.E.M Mrwetyana High School	10
EAR20	Volcano Anovuyo Boyi	T.E.M Mrwetyana High School	10

Energy Efficiency and Conservation: Efficient use of energy and ways of using less energy

EFC21	Electrical Guide Zukisani Tyelbooi	Nathaniel Nyaluza Public Secondary School	11
EFC22	Hot or Not? Alexandra Rowe Leigh Saywood	The Diocesan School for Girls The Diocesan School for Girls	9 9
EFC23	Investigating cost effective ways to insulate homes Siphosethu Mayekiso	Victoria Girls' High School	11
EFC24	Rechargeable Stove Lungako Mqopi Lisa Ncumani	Nathaniel Pamla High School Nathaniel Pamla High School	11 11
EFC25	Saving Electricity Livuse Mendela	Grahamstown Adventist Primary School	7

Proj. No.	Project Title	School Name	Grade
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Energy: Non-renewable (Fossil Fuels and use of electricity)

ENR26	Energy: Fossil fuels and use of electricity		
	Tyreece Burger	Victoria Girls' High School	9
	Yolisa Ngcola	Victoria Girls' High School	9

Energy: Renewable (Biofuels, Geothermal, Bio-digesters)

ERB27	Bio Digestion		
	Siseko Ntlanjeni	Khutliso Daniels Senior Secondary School	11
ERB28	Biofuels as a source of electrical energy		
	Mbonge Larase	Ntabenkonyana High School	10
ERB29	Extracting methane gas		
	Livenathi Manambana	Nathaniel Pamla High School	8
	Bathabile Zondani	Nathaniel Pamla High School	8
ERB30	Fire wood vs cow manure		
	Anele Sokothi	Nathaniel Pamla High School	8
ERB31	Investigating an easy way or extracting methane		
	Avumile Yeko	Mary Waters High School	11
ERB32	Investigating if <i>Helichrysum petiolare</i> can supply enough energy to produce electricity		
	Asanele Yapi	Mary Waters High School	11
ERB33	Let's create fuel		
	Alizwa Tuko	Port Alfred High School	11
ERB34	Lighting an LED bulb using fruit and vegetables		
	Leah Banks	Victoria Primary School	7
ERB35	What are the ideal conditions for pond algae for maximum productivity?		
	Sivenathi Duma	Mary Waters High School	11
	Asisipho Mnyungulwa	Mary Waters High School	11

Proj. No.	Project Title	School Name	Grade
Energy: Renewable (Solar, Wind, Wave, Hydro)			
ERS36	Cooking with solar energy		
	Jocelyn Morrison	Kingswood College	9
ERS37	Portable solar powered device charger PSPDC		
	Joshua Maritz	Kingswood College	9
	Christopher McCune	Kingswood College	9
ERS38	Simple renewable energy device		
	Xhasumzi Zweni	Ntabenkonyana High School	11
ERS39	Solar geyser redesigned		
	Amava Madikida	Victoria Primary School	7
ERS40	Solar Panels		
	Khaya Sabani	Nombulelo Senior Secondary School	10
ERS41	Solar power bank		
	Siphesihle Nxantsiya	Ntabenkonyana High School	11
ERS42	Solar system		
	Siyabonga Frans	Nathaniel Nyaluza Public Secondary School	9
	Liyema Nzizi	Nathaniel Nyaluza Public Secondary School	9
ERS43	Solar vs Wind		
	Wynne Edwards	Kingswood College	9
ERS44	The hydro-electric ship		
	Sinovuyo Futuse	Nombulelo Senior Secondary School	11

Engineering: Chemical, Metallurgical, Civil and Mining

ENC45	Elevator Bridge		
	Hopewell Munyai	Nombulelo Senior Secondary School	10

Proj. No.	Project Title	School Name	Grade
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Engineering: Chemical, Metallurgical, Civil and Mining

ENC46	The adjustable bridge Sivuyisiwe Tinga	Ntabenkonyana High School	12
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Engineering: Electrical and Electronics

ENE47	Electric Fruit Aphelele Nyenyeku	Healdtown Comprehensive High School	8
ENE48	Electrical Zinc Asemahle Gwebushe Thimna Nkayi	Nkwanca High School Nkwanca High School	11 11
ENE49	Electrolitic Cell Lunga Mgqamqo Siphesihle Sinxoto	Nkwanca High School Nkwanca High School	10 10
ENE50	Electrolysis Longeziwe Sigila	Healdtown Comprehensive High School	10
ENE51	High frequency hearing test Sinxolo Gamnca	Healdtown Comprehensive High School	10
ENE52	Hydro Dynamo Nathi Mini Okuhle Pangwa	Ntaba Maria Primary School Ntaba Maria Primary School	9 9
ENE53	Load shedding bulb Athenkosi Mgijima Somelela Waka	Makana Public Primary School Makana Public Primary School	7 7
ENE54	Quantum resonance magnetic analyser Lithalethu Kupa	Nkwanca High School	10

Proj. No.	Project Title	School Name	Grade
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Engineering: Mechanical, Aeronautical and Industrial

ENM55	Airplane Guard Sandisiwe Veto	Khutliso Daniels Senior Secondary School	11
ENM56	Automatic toilet hub Anam Tyatyeka	Nkwanca High School	11
ENM57	Hydroelectric Generator Anga Sidandala Yonelisa Sidandala	Nkwanca High School Nkwanca High School	10 10
ENM58	Improve cellular reception in a cost effective way Keto Jenkins	Kingswood College	9
ENM59	Improving efficiency of electric cars Bradley Williams Stembiso Busakwe	Hoërskool Alexandria Hoërskool Alexandria	10 10
ENM60	Jet Pack Given Taleni Khanyisa Nondose	Nkwanca High School Nkwanca High School	11 11
ENM61	Magnetic Glove Milani Gacanga Lisakhanya Matinise	Nathaniel Pamla High School Nathaniel Pamla High School	8 8
ENM62	On the go kettle Zipho Kepeyi Siyamkela Mrubata	Nkwanca High School Nkwanca High School	11 11
ENM63	Plasma power station Bathembu Jonas	Nombulelo Senior Secondary School	10
ENM64	The maglev train Babalwa Mhlawuleli Babalwa Ndlebe	Port Alfred High School Port Alfred High School	11 11

Proj. No.	Project Title	School Name	Grade
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Environmental Management: Study of Human Interaction with the Environment

EVM65	Cost effective way to filter unclean water		
	Manyano Sishuba	Kingswood College	9
EVM66	Cleaning Water		
	Pamela Tana	Makana Public Primary School	7
	Patricia Williams	Makana Public Primary School	7
EVM67	How to clean water		
	Athule Kleyi	Makana Public Primary School	7
	Sisipho Tyelbooi	Makana Public Primary School	7
EVM68	Illegal Dumping		
	Mvumelwano Prince	Nombulelo Senior Secondary School	11
EVM69	Land pollution at Nathaniel Nyaluza Public Secondary School		
	Owam Gumenge	Nathaniel Nyaluza Public Secondary School	8
	Ziyanda Nela	Nathaniel Nyaluza Public Secondary School	8
EVM70	Pesticides		
	Lifa Ncumani	Nathaniel Pamla High School	11
EVM71	Nature Perfume		
	Anathi Bakada	Nathaniel Pamla High School	10
EVM72	Safe way to the environment		
	Misha Bhatyi	Sipho Camagu High School	8
	Sinovuyo Fobo	Sipho Camagu High School	8
EVM73	Saving Matyana river		
	Nande Gwe	Nathaniel Nyaluza Public Secondary School	11
EVM74	Turning down the volume		
	Anna Jones	The Diocesan School for Girls	9
	Chiara Williams-Wynn	The Diocesan School for Girls	9

Proj. No.	Project Title	School Name	Grade
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Environmental Management: Study of Human Interaction with the Environment

EVM75	Volcano		
	Linathi Saki	Fikizolo Primary School	7
EVM76	Water Bank		
	Anelisiwe Mbanya	Nkwanca High School	12

Environmental Science: Changes to the Environment

EVS77	Climate change in a box		
	Kelby Barker	The Diocesan School for Girls	9
	Lucy Ter Morshuizen	The Diocesan School for Girls	9
EVS78	Do volcanoes follow the gas laws		
	Athandiwe Ndayi	Nathaniel Nyaluza Public Secondary School	8
	Masixole Ntsundwana	Nathaniel Nyaluza Public Secondary School	8
EVS79	Droughts		
	Lelethu Ngcosini	Ntsika Senior Secondary School	10
EVS80	Natural Disasters		
	Sive Teyise	Archie Mbolekwa Senior Primary School	8
EVS81	Pollution		
	Sisipho Yamiso	Mary Waters High School	10
EVS82	Pumping of water		
	Siphamandla Bomvana	T.E.M Mrwetyana High School	10
EVS83	The effect of green algae on water temperature and condensation formation		
	Sara Wilhelmi	Kingswood College	9
	Tyler Bovey	Kingswood College	9

Proj. No.	Project Title	School Name	Grade
Food Science, Food Technology and Healthy Eating			
FOH84	Artemisia afra ginger tea Nzuzo Mponwana	Kwa-Komani Comprehensive School	12
FOH85	Bake Sisanda Frans	Makana Public Primary School	7
FOH86	How fast fruit rot Zurayda Jackson	Hoërskool P.J. Olivier	6
FOH87	How much energy is in the snack we eat? (Calorimetry) Mihle Gadu	Victoria Girls' High School	10
FOH88	How to cook veggies Yamkela Jaha Chuma Libi	Makana Public Primary School Makana Public Primary School	7 7
FOH89	Ice Cream Asanda Ndixo Philela Sofute	Nathaniel Pamla High School Nathaniel Pamla High School	8 8
FOH90	Is a denser fruit healthier Sinethemba Mbatsha	Healdtown Comprehensive High School	10
FOH91	Is a microwave dangerous? Linen Kunene	Mary Waters High School	10
FOH92	Mix of vegetables Luthando Jara Sinovuyo Blom	Sipho Camagu High School Sipho Camagu High School	8 8
FOH93	The amount of potential energy in different types of nuts Zoë Lang	Victoria Girls' High School	10
FOH94	The degradation of different ice creams (soft serve) over time Marian Keen	Victoria Primary School	7

Proj. No.	Project Title	School Name	Grade
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Food Science, Food Technology and Healthy Eating

FOH95	The easiest way to ferment umqombothi and to save energy		
	Chwayita Gula	Nathaniel Nyaluza Public Secondary School	11
	Nomawethu Kondile	Nathaniel Nyaluza Public Secondary School	11
FOH96	The effect of temperature in making ginger beer		
	Sinazo Mahala	Nathaniel Nyaluza Public Secondary School	11
	Nati Ngesi	Nathaniel Nyaluza Public Secondary School	11
FOH97	The not so sweet truth about sugar		
	Lane' van Vuuren	Hoërskool P.J. Olivier	8
FOH98	To gluten or not to gluten?		
	Annette Kroese	Victoria Girls' High School	9
FOH99	Trying to find sugar contents in fruit		
	Thangolwethu Coko	Hoërskool P.J. Olivier	6

Innovation and Technology

INN100	A safe transport that will decrease effects of climate change		
	Mihlali Voyi	T.E.M Mrwetyana High School	12
INN101	A water conserving household		
	Carla Odendaal	Hoërskool P.J. Olivier	8
	Shirley Retief	Hoërskool P.J. Olivier	8
INN102	Backpack on the go		
	Owethu Mandela	Nkwanca High School	10
INN103	Beer can cleanse dandruff as much as shampoo		
	Sinovuyo Bacela	Ntaba Maria Primary School	8
	Chantel Diko	Ntaba Maria Primary School	8
INN104	Bulb Pen		
	Aviwe Mfakadolo	Nkwanca High School	10
	Nanga Madlangathi	Nkwanca High School	10

Proj. No.	Project Title	School Name	Grade
Innovation and Technology			
INN105	Clean Board		
	Mihle Maxhwane	Nkwanca High School	11
	Yibanathi Fulani	Nkwanca High School	11
INN106	Crushing rubbish bin		
	Nande Mbuqe	Sipho Camagu High School	9
	Sibahle Kutshwa	Sipho Camagu High School	9
INN107	Different massaging oils		
	Unathi Sandi	Makana Public Primary School	7
INN108	Gloop		
	Alutha Dyongman	Fikizolo Primary School	7
INN109	Hi-fume track		
	Busisiwe Tsolekile	Ntabenkonyana High School	11
INN110	Mixture of soaps		
	Asivenathi Mdolomba	Makana Public Primary School	7
	Nosibabalo Ntamo	Makana Public Primary School	7
INN111	Power Boot		
	Armand Oosithuizen	Port Alfred High School	8
INN112	Professional Security		
	Tshepo Mpahlele	Fikizolo Primary School	7
INN113	Science Exploration		
	Lelethu Nobatana	Nkwanca High School	11
INN114	The eye of the eagle		
	Nikithemba Masabalala	Fikizolo Primary School	7
INN115	The mobile greenhouse		
	Tshepo Madigoe	Adelaide Gymnasium	10

Proj. No.	Project Title	School Name	Grade
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Innovation and Technology

INN116	Tinted plastics and their effect on plant growth		
	Nana Abebreseh	Victoria Primary School	7
INN117	Warming Jacket		
	Asikelelwe Msindwana	Nkwanca High School	11
INN118	Windshield rain wipers		
	Sinazo Nontshinga	Sipho Camagu High School	9
	Yamkela Mseleni	Sipho Camagu High School	9

Mathematics and Statistics

MAT119	Finding the mathematical pattern in J.C. Bach preludes and fuges		
	Lilitha Jojo	Victoria Girls' High School	11

Medical Sciences and Health Care

MED120	Are people taller in the morning?		
	Espérance Mwepu	Victoria Girls' High School	10
MED121	Are symmetrical things perceived as more beautiful?		
	Ahlume Nkuhlu	Victoria Girls' High School	10
MED122	Comparing the sleeping brain to that of a dead person		
	Ayabonga Kampini	Ntsika Senior Secondary School	10
MED123	Diet Medicine		
	Zintle Alexander	Nathaniel Pamla High School	8
	Nhlanhla Masiza	Nathaniel Pamla High School	8
MED124	Disorders of nutrition		
	Nhlanhla Masiza	Nathaniel Pamla High School	8

Proj. No.	Project Title	School Name	Grade
Medical Sciences and Health Care			
MED125	Do natural sounds help decrease blood pressure?		
	Lolita Koti	Victoria Girls' High School	10
MED126	Do natural/homemade acne creams or commercial products work better on skin		
	Chloë Bettridge	Victoria Girls' High School	9
MED127	How do people live?		
	Zizipho Matebese	Tantyi Primary School	6
MED128	Human Cloning		
	Sesethu Mtshelu	Ntsika Senior Secondary School	10
	Tandile Qhinga	Ntsika Senior Secondary School	10
MED129	Is sensitivity heightened on your dominant side?		
	Uwimbabazi Keza	Victoria Girls' High School	10
MED130	Taste buds between smokers and non-smokers		
	Tamryn Bailes	Kingswood College	9
MED131	The effect of nightshift on sleep		
	Simamkelo Kwenxe	Ntsika Senior Secondary School	10
MED132	Value of Mhlonyane and Medlemon		
	Andisiwe Nakani	Sipho Camagu High School	8
	Lulo Zukiso	Sipho Camagu High School	8
MED133	What factors affect the strength of human hair (natural variation/chemical treatments)		
	Victoria Hlongwane	Victoria Girls' High School	10
MED134	Which painkillers are absorbed the quickest		
	Yibanathi Manana	Victoria Girls' High School	11

Proj. No.	Project Title	School Name	Grade
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Microbiology and Diseases

MIC135	Food-borne Diseases Aqhamile Yose	Archie Mbolekwa Senior Primary School	8
MIC136	Natural things to cure chicken pox Siphamandla Ndlebe	Nombulelo Senior Secondary School	10
MIC137	The most effective disinfectant Ziyanda Magadla	Victoria Girls' High School	11

Physics, Astronomy and Space Science

PHY138	The effects ball tampering has on the aerodynamics of a ball Micaela Grant-Thomson	Victoria Girls' High School	9
PHY139	Science Expo John Zulu	Kingswood College	9

Plant Sciences including Marine Plants

PLA140	Are zeolites the answer? Tosca Stoloff	Victoria Primary School	7
PLA141	Different liquid effects on succulents Iqra Hayat	Victoria Primary School	7
PLA142	Can the combination of aspirin and banana peels help grow and enhance rate of germination? Khululekile Cekiso Nicholas Thomas	Mary Waters High School Mary Waters High School	10 11
PLA143	Give backyard gardening a try Wafa Rizvi	Victoria Primary School	7

Proj. No.	Project Title	School Name	Grade
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Plant Sciences including Marine Plants

PLA144	How light colour affects plant growth		
	Roslyn Stobbs	Victoria Primary School	7
PLA145	Invasive alien impact on ecosystem functioning		
	Simamkele Dyaloyi	Nathaniel Nyaluza Public Secondary School	11
	Siyanda Manana	Nathaniel Nyaluza Public Secondary School	11
PLA146	Spekboom: the wonder plant?		
	Kristen du Plessis	The Diocesan School for Girls	9
PLA147	What substances best prolong the lifespan of cut flowers		
	Melissa Amos	Victoria Girls' High School	10

Social and Psychological Sciences

SOC148	Colour your mood		
	Daniella Benjamin	The Diocesan School for Girls	9
	Aduke Sonuga	The Diocesan School for Girls	9
SOC149	Do people perform better on red or blue card?		
	Kutlo Baruti	Kingswood College	9
	Salang Ratshosa	Kingswood College	9
SOC150	Drugs are killing people!		
	Anam Nguta	Makana Public Primary School	7
	Thandolwethu Skeyi	Makana Public Primary School	7
SOC151	Is your dominant hand sensitive to coldness more than your recessive hand?		
	Priyanka Harjeven	Victoria Primary School	7
SOC152	Meditations affect on our ability to learn		
	Abongile Nokenke	Victoria Girls' High School	9
SOC153	Poaching rhinos must stop		
	Ovayo Mfihlo	Makana Public Primary School	7

Proj. No.	Project Title	School Name	Grade
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Social and Psychological Sciences

SOC154	Science Awareness		
	Amahle Mananga	Sipho Camagu High School	8
	Ntombikayise Gaven	Sipho Camagu High School	8
SOC155	Student views on their education system		
	Jenna Wright	Kingswood College	9
	Talia Aliber	Kingswood College	9
SOC156	The causes of dreams and the relationship between TV and dreams		
	Andisiwe Mdambatya	Ntsika Senior Secondary School	10
SOC157	The effectiveness of different enhancing techniques		
	Lichumile Nikani	Victoria Girls' High School	10
SOC158	The effects of watching TV on academic performance		
	Yolisa Makinana	Ntsika Senior Secondary School	10
SOC159	The study of autism		
	Eden Hendricks	Victoria Girls' High School	9
	Kristen Wehr	Victoria Girls' High School	9
SOC160	Electricity		
	Simthandile Sayama	Fikizolo Primary School	7
SOC161	Understanding Maps		
	Makoma Mtombo	Fikizolo Primary School	7

Sports Science

SPO162	Duck-footed, Pigeon-toed or Straight-footed		
	Emily Webber	Kingswood College	9
	Jodie Armstrong	Kingswood College	9
SPO163	How carbohydrates affects athletes		
	Tiaan Heyns	Hoërskool P.J. Olivier	6

Proj. No.	Project Title	School Name	Grade
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Sports Science

SPO164	Which exercise increases the heart rate the most		
	Kira Curtin	Kingswood College	9
	Sesame Makgatlhe	Kingswood College	9

Sustainable Development

SUS165	Recycling and purification of water		
	Ayabulela Njokweni	Lingelihle Senior Secondary School	11
SUS166	Take the grey away		
	Katarina Behr	The Diocesan School for Girls	9
	Luisa Da Molo	The Diocesan School for Girls	9
SUS167	Which is the best washing powder to use		
	Zikhona Shayi	Fikizolo Primary School	7