

STELLENBOSCH REGIONAL RESULTS 2017

AGRICULTURAL SCIENCES



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Paul Roos Gimnasium	Markus Bonsma	Beste onthoringmetode by kalwers	G	Junior: Best Agricultural research project Sponsored by Faculty of AgriSciences	Overall BEST agricultural research project BOOK PRIZE Sponsored by Nietvoorbij Agricultural Research
Bloemhof Girls High School	Cara Smit and Nadine Van Nieuwholtz	Earthworm tea vs Water vs Artificial plantfood	G		
Bloemhof Girls High School	Jana Goosen	The shelf life of organic and non-organic fruit	G		
Hoërskool Bellville	Anay Carina Van Zyl	Beheer jou brokkoli	S	Senior: Best Agricultural research project Sponsored by Faculty of AgriSciences	
Hermanus High School	Kirsten Koen	Which colours are bees most attracted to?	S		
Hoër Meisieskool Bloemhof	Annerine Strauss	Larwes reg, rommel weg...	S		
Hoërskool Bredasdorp	Lynelle Pratt	Molasse is die beste energiebron vir verbruik deur sportperde	S		
Hoërskool Bredasdorp	Alwyn du Plessis and Francois du Plessis	Herwinbare materiaal as waterbesparing	S		
Hermanus High School	Jessica Meiring	Thigmotropism: The effect of human touch on plant growth	B		
Hoërskool Overberg	Carolien Meyer	Hoe beïnvloed temperatuur die rakteeftyd van Pink Lady appels	B		
Masibambane Secondary School	Asiphe Vavana	Drip render	B		
Rhenish Girls' High School	Michaela Budge	The design of a sustainable aquaponic system in a fishpond	B		

ANIMAL AND VETERINARY SCIENCES, INCLUDING MARINE ANIMALS



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Parel Vallei High School	Kai Moolman	Black Death (Can flea control be found in history?)	G	Senior: Best Animal Sciences, Veterinary or Marine Animal research project Sponsored by Faculty of AgriSciences	
Paul Roos Gymnasium	George Fischer	Cheaper alternative feed for commercial fish production	S	Junior: Best Animal Sciences, Veterinary or Marine Animal research project Sponsored by Faculty of AgriSciences	
Bellville High School	Tiaan Johan Venter	Whether to fish or not to fish, that is the question?	B		
Curro Hermanus Independent School	Kate Hodson	Conformation and horse biomechanics	B		
Hermanus High School	Kirsten Sutherland	Which natural method of mole eradication is most effective	B		
Hoërskool Overberg	Chanél Bosman	Hou die armadillidiidae van ligte droë, of donker klam gebiede?	B		
Paul Roos Gimnasium	Tiaan Arend de Waal	Het voëls 'n sterker voorkeur vir een spesifieke kleur?	B		

CHEMISTRY AND BIOCHEMISTRY



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Curro Hermanus Independent School	Fransie Albert Streicher	Hydrogenation of unsaturated fatty acids in microbial fuel cells	G	Senior: Best research project in the Chemistry and Biochemistry category Sponsored by Faculty of Sciences	Overall best research project by a boy Sponsored by Education Faculty
Curro Durbanville Independent School	Kyle Janse van Rensburg	Fire eater	S	Junior: Best research project in the Chemistry and Biochemistry category Sponsored by Faculty of Sciences	
Worcester Gymnasium	Shakeera Williams	Shaking for suds: Water hardness vs pH	S		
Hoër Meisieskool Bloemhof	Tenika Franken and Calista Higgs	Watter lappie wen die brandresies?	S		
Bridge House School	Alina Pirouz	Which tablet coating dissolves the fastest in simulated stomach acid?	B		
Hoërskool Bellville	Tiaan Opperman	Stikstof of koolstofdioksied / Nitrogenium of carbogenumdioxygenium?	B		
Paul Roos Gymnasium	Daniël Theron	The effect of pH on the electro-chemical decomposition of water	B		
Paul Roos Gymnasium	Elliot Cutler	The effect of temperature on the duration of fermentation of wine	B		
Worcester Gymnasium	Scarlett Otto and Charne Cilliers	Electrolytic chlorine	B		

COMPUTER SCIENCES AND INFORMATION TECHNOLOGY



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Curro Hermanus Independent School	Christoff Anton Jordaan	VisiCHEM - chemisty assistive tool	G	Senior: Best research project in Computer Science and Information Technology Sponsored by Faculty of Sciences	
Hermanus High School	Thomas Williams	Raspberry Pi weather station	S	Junior Best research project in Computer Science and Information Technology Sponsored by Faculty of Sciences	
Curro Hermanus Independent School	Matthew Stephen Castle	X-am: Paper generator	B		

RENEWABLE ENERGY



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Hoër Meisieskool Bloemhof	Elizabeth Marie Smith	Songeld	G	Junior: Best research projects about renewable energy Sponsored by Engineering Faculty	ESKOM: Overall best research project done on alternative energy sources Sponsored by Faculty of Education & ESKOM
Bellville High School	Henning Jacobs Gideon Kock	Let's follow the sun	G	Senior: Best research projects about renewable energy Sponsored by Engineering Faculty	
Hoër Meisieskool Bloemhof	Lara Möller and Frances Van Rooyen	Perdedrolle is nie vye nie	S		
Hoër Meisieskool Bloemhof	Yerusha Halgryn	Maak 'n verskil met 'n solar oond	S		
Paul Roos Gymnasium	Conrad Dawid Kriel	The effect of heat on output of solar-panels	S		
Bellville High School	Chris-Mari Schreuder	Human electricity	B		
Hermanus High School	Jahn Louw	Hydroelectric power generater system for mining application	B		

ENERGY EFFICIENCY



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Bridge House School	Tanya Brits	Which single use light source is the most cost-effective?	S	Junior: Best project in Energy Efficiency and Conservation Sponsored by Engineering Faculty	
Hoërskool Bredasdorp	Francois Tromp and Rinus von Waltleben	Verhit 'n "rocket stove" meer ekonomies as elektriese alternatiewe?	S	Senior: Best project in Energy Efficiency and Conservation Sponsored by Engineering Faculty	
Bridge House School	Sebastian Lanz	Insulation properties of recycled materials	S		
Rhenish Girls' High School	Kira Louw Jazz Mallam	Effects of backwashing versus non-backwashing	S		
Worcester Gymnasium	Elmari van der Westhuizen and Jana Myburg	Factors that influences the heat loss in homes	S		
Bellville High School	Sean Lee	Ignite your fire	B		

ENGINEERING



Engineering: Chemical, Metallurgical, Civil & Mining

School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Curro Hermanus Independent School	Gabriel Ivan Patrick Stratford	Recyclable solar desalination unit	S	Senior: Best project in Chemical, Metallurgical, Civil or Mining Engineering Sponsored by Engineering Faculty	

Engineering: Electronics and Electrical

School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Rhenish Girls' High School	Zethu Mavovana and Nqobile Mmope	The Ficycle: The pedal-powered fan	S	ESKOM: Overall best research project done on energy efficiency and conservation Sponsored by Faculty of Education & ESKOM	
Hoërskool Parel Vallei	Michael van Niekerk and Dian Wiese	Watertoevoer-kragopwekker	S	Senior: Best project in Electronic and Electrical Engineering Sponsored by Engineering Faculty	
Cravenby Combined School	Tabriz Kabulo	Self-sustaining electric vehicle	S		
Cravenby Combined School	Herchel Pillay	Self-sustaining energy spot	B		

Engineering: Mechanical, Aeronautical & Industrial

School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Bredasdorp High School	Heinrich Beneke and Cornel van Rooyen	Does the amount of blades affect a propellers rotation speed	B		
Bridge House School	Tim Vermeulen	How drag affects paper airplanes	B		

ENVIRONMENTAL MANAGEMENT



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Bridge House School	Emma Wainwright	Do biodegradable products decompose faster than the normal alternative	G		Second Best Earth and environmental sciences project prize
Hoër Meisieskool Bloemhof	Enya Eek	Sit die swartbal metode aan die rol en stop waterverdamping	G	Junior: Best research projects addressing environmental sciences and management Sponsored by Faculty of AgriSciences	Best Earth and environmental sciences project prize SA Weather Service
Hoërskool Bellville	Larissa Pullinger	Plante en hul waterige probleme	G	Senior: Best research projects addressing environmental sciences and management Sponsored by Faculty of AgriSciences	
Hoër Meisieskool Bloemhof	Christelle Jeanne Broeksma and Adri Malan	Grey water vs tap water	G		
Bredasdorp High School	MG Retief	Rainwater harvesting system with a filtration system	S		
Bridge House School	Ryan de Graaf	Is distillation of sea water a cost effective method of producing freshwater?	S		
Curro Durbanville Independent School	Siyabonga Nhlapo	Using grey water effectively to drink and to generate electricity	S		
Hermanus High School	Anna van Zyl	The human-baboon conflict in Voëlklip, Hermanus.	S		
Hoërskool Bellville	Madelein Barnard	Water herwinnaar	S		
Hoërskool Bellville	Thalia Joubert	Stort op die gras	S		
Hoërskool Bredasdorp	Zoë-Lee Appel and Kauthar Mentoer	Die effek van kafeïen bevattende drankies op die fynbospesie: Geelbos	S		
Paul Roos Gymnasium	Matthew Lochner	The effect of gradient on the speed of veldfire	S		
Curro Durbanville Independent School	Michael Woods and Matthew-James Pether	Grey water: Can plants tolerate it?	B		
Curro Durbanville Independent School	Marco Erlank	Watersuiwering	B		
Hoërskool Hermanus	Celeste Nel	Waterverdamping	B		
Masibambane Secondary School	Sivenathi Mda and Hlumelo Ngobo	Blow- water loo	B		
Parel Vallei High School	Kayla Buchanan	Acid water works	B		

ENVIRONMENTAL AND EARTH SCIENCES



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Rhenish Girls' High School	Elmarie Swanepoel	Alkalinity away to save water and the environment	G	Overall SECOND best project about water Sponsored by Department of Water affairs	Senior: Best project about Earth Sciences Sponsored by Faculty of Sciences
Hoër Meisieskool Bloemhof	Lisa Kruger	Chemiese watergehalte en plantegroei (Chemical water quality and plant growth)	G	Overall BEST project about water Sponsored by Department of Water affairs	Junior: Best project about Earth Sciences Sponsored by Faculty of Sciences
Bellville High School	Jacques Du Toit	Nature at its crudest	S		
Bloemhof Girls High School	Lize Burger and Taylor Hendrikse	Spilled oil solution (SOS)	S		
Paul Roos Gimnasium	Nicolas Rust	Evaluering van verskillende materiale om verdamping koste effektief te beperk	S		
Bridge House School	Adam Cargill	Resisting rust	B		
Curro Durbanville Independent School	Juan-Luc Muller and Gheran Hattingh	Druppel vir druppel	B		
Curro Hermanus Independent School	Luka Jasprica	Effect of E-coli pollution on natural vegetation	B		

FOOD SCIENCE, FOOD TECHNOLOGY AND HEALTHY EATING



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Paul Roos Gymnasium	Neil van der Westhuizen	The impact of date marking on food waste	G	Junior: Best research project on Food science or Food technology	
Rhenish Girls' High School	Georgia Roux and Samantha Smuts	Raw vegan diet: What does our blood tell us?	G	Senior: Best research project on Food science or Food technology Sponsored by Faculty of AgriSciences	
Bloemhof Girls High School	Kristin Millard and Franze Lotter	Effects of packaging on the shelf life of pears	S		
Bloemhof Girls High School	Ghia Hough	Lemon juice + honey = angel voice	S		
Hoër Meisieskool Bloemhof	Jana Swanepoel and Antoinette du Plessis	Plaasontbyt op Mount Everest?	S		
Hoër Meisieskool Bloemhof	Nikola Muller and Meghann Mulder	GMO super skyfies / GMO super chips	S		
Paul Roos Gymnasium	Herman Kotze and Stephan Bekker	A lemon a day, keeps the doctor away	S		
Bellville High School	Caitlin Winterbach	"Meats or beets"	B		
Bernadino Heights High School	Wendy Sonthongose	Development of "Superlife" cereal	B		
Bridge House School	Demeye de Leeuw	What's really in your food?	B		
Bridge House School	Kendan McCarthy	The effects different drinks have on the human tooth	B		
Hermanus High School	Misha Horn	Thirsty for colour	B		
Hoërskool Bellville	Marnè Badenhorst	Soete wetenskap	B		
New Orleans Secondary School	Shanice Nicholas	How much sugar is in it?	B		
Paul Roos Gymnasium	Michael Coetzee	Knowing the contents of a beverage will change your choice?	B		
Rhenish Girls' High School	Jenna Stevenson	You taste what you see	B		

INNOVATION AND TECHNOLOGY



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Bellville High School	Johan Hendrik Olivier	It's a sticky question!	G	Senior: Best Innovation and Technology project Sponsored by Engineering Faculty	
Bridge House School	Albert Ottesen	Mixed reality	G	Junior: Best Innovation and Technology project Sponsored by Engineering Faculty	
Hermanus High School	Sean Castle	Affordable rainwater harvesting system for low cost housing dwellings	G		
Parel Vallei High School	Gabby Thomas	Prevention of evaporation	G		
Spurwing Primary School	Ntokozi Sikosana	Shack fires	S	ESKOM: Overall best project done with limited resources Sponsored by Faculty of Education & ESKOM	Best research project by a Gr 7 participant Sponsored by Education Faculty
Parel Vallei High School	Jamie-Leigh Job and Dean João	Oil and water separation	S		
Parel Vallei High School	Caro Botha	Custom point shoe padding	S		
Parel Vallei High School	Jenna Hurlow	Water safety armband	S		
Hoërskool Bredasdorp	Ebert Nel Itzen Auret	Boer met 'n plan – gemaklike hek ontwerp	S		
Hoërskool Bellville	Zander Bezuidenhout and Kyle Viljoen	Om lug in water te verander	B		
Parel Vallei High School	Christof Jooste	More efficient ship hull	B		
Paul Roos Gimnasium	Hans Neethling	Spieëltjie, spieëltjie sê vir my... Hoeveel lig kan ons kry?	B		

MATHEMATICS AND STATISTICS



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Bridge House School	Cameron Catherine Alderslade	How does latitude affect your Anthem?	G	Junior: Best Mathematics and Statistics project Sponsored by Faculty of Sciences	
Khanyolwethu Secondary School	Yonwaba Katise	Predicting the future of politics	S		

MEDICAL SCIENCES AND HEALTH CARE



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
New Orleans Secondary School	Veda October	Whitening of teeth	G	Junior: Best research project in the Medical Sciences and Health Care Sponsored by Faculty of Medicine and Health Sciences	
Hoër Meisieskool Bloemhof	Michelle Theron and Christelle Koetsier	Reflekte: Pianiste vs. nie-pianiste	S	Senior: Best research project in the Medical Sciences and Health Care Sponsored by Faculty of Medicine and Health Sciences	
Rhenish Girls' High School	Nande Lujabe	Are your fingerprint patterns inherited?	S		
Bellville High School	Phillizè de Jong and Mia Wiese	The roots of your energy	B		
Curro Hermanus Independent School	Anke Bielfeld	Hearing by age groups and other factors affecting hearing	B		
Hoërskool Parel Vallei	Anika Loots	Die tipe 1 diabeet probleem	B		
Star College Primary School	Tanweer Alli	The viability of the use of ultrasound in private general practice	B		

MICROBIOLOGY AND DISEASES



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Bloemhof Girls High School	Vitske van Zyl	Who ate my bread?	G	Junior: Best project in Microbiology and Diseases Sponsored by Faculty of Medicine and Health Sciences	
Bridge House School	Jeanne Sophie Blaisse	Is antibacterial soap more effective in killing bacteria than normal soap?	S		
Hoër Meisieskool Bloemhof	Beatri Cloete and Ané Conradie	BakTEErieë	S		
Bloemhof Girls High School	Anneli Wood and Mia Potgieter	Filtration for the nation	B		
Bridge House School	Ashley Cork	Is your Wi-Fi toxic?	B		
Bridge House School	Katja van Dyk	Best liquid to remove bacteria in your mouth	B		
Rhenish Girls' High School	Kayla Scott	Does the 5-second rule really rule?	B		

PHYSICS, ASTRONOMY AND SPACE SCIENCE



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Curro Hermanus Independent School	Julia Lily Butchart	The butter-side down phenomenon	G	Senior: Best research project in the Physics, Astronomy and Space Sciences field Sponsored by Faculty of Sciences	
Hermanus High School	Cade Ingles	Does air pressure affect how far a soccer ball travels when kicked?	S	Junior: Best research project in the Physics, Astronomy and Space Sciences field Sponsored by Faculty of Sciences	
Parel Vallei High School	Kayla van Rensburg	Fireplace water heater	S		
Bellville High School	Imáney Janse van Rensburg	"Breezed Lightning"	B		
Bredasdorp High School	Robyn Morgaine Minnie	Cymatics: Sound's effect on matter	B		
Bridge House School	Robyn van Niekerk	Does the frequency of sound effect a flame?	B		
Bridge House School	Benjamin Barclay-Loggie	Using permanent magnets as a form of transport	B		
Hermanus High School	Immanuel Arendse	Magnetic propulsion	B		
Parel Vallei High School	Bernard Bosma	Investigation of the Mpemba Effect	B		
Spurwing Primary School	Chamunorwa Muchabaiwa	Magnetic forces	B		

PLANT SCIENCES, INCLUDING MARINE PLANTS



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Hoër Meisieskool Bloemhof	Janecke Appelgryn	10/10 vir erdwurms - Erdwurmttee vs water vs kunsmatige plantvoedsel	G	Senior: Best Plant Sciences research project Sponsored by Faculty of Sciences	
Rhenish Girls' High School	Madeleine Basson and Kian-Lee Du Toit	Can your flow help your plants grow?	G	Junior: Best Plant Sciences research project Sponsored by Faculty of Sciences	
Bernadino Heights High School	Michaylah Hendricks	Putting the A in DNA literally	S		
Bellville High School	Tiaan Combrink	"Mag plant, krag plant"	S		
Bellville High School	Deidre Fischer and Montana Mae Heyns	Power 4 flowers	B		
Bridge House School	Gia Labuschagne	What is the survival rate of plants in different types of water?	B		
Hermanus High School	Anneme Holzhausen	Can the microwaves in a microwave effect a plants growth?	B		
Hermanus High School	Gordon Shaw	Do the different light intensities affect the growth of plants?	B		
Hoërskool Bellville	Kayla Letitia Burger	Vetplant voortplanting	B		
Hoërskool Bredasdorp	Simòn Jordaan and Lindie Pieterse	Gryswater	B		
Rhenish Girls' High School	Lauren Cyster	Maybe we should focus on osmosis	B		
Rhenish Girls' High School	Alexandra Osborn	The effect of electric current on plant growth	B		

SOCIAL AND PSYCHOLOGICAL SCIENCES



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Bloemhof Girls High School	Anyané Volschenk and Carla Müller	Pink for girls and blue for boys - still valid?	G	Senior: Best project in the Social and Psychological Sciences	
Rhenish Girls' High School	Caleigh Plaatjes	Music mania!	S	Junior: Best project in the Social and Psychological Sciences	
Bloemhof Girls High School	Rentia-Marié Meyer and Zahn Marais	Arial vs Comic Sans	S		
Bredasdorp High School	Marnel Retief and Nicole Madden	Does music have an effect on your memory while studying?	S		
Curro Hermanus Independent School	Kaci Lynne Van Romburgh and Chloe Amelia Land	Music and memory	S		
Parel Vallei High School	Lucia Niland and Olivia Dawson	How fear changes with age	S		
Paul Roos Gymnasium	Bernard Combrink	Picture perfect face?	S		
Hoërskool Hermanus	Elsari Strauss	Is jy 'n betroubare ooggetuie	S		
Hoër Meisieskool Bloemhof	Cimon van der Westhuizen	Met die eerste oogopslag...	B		
Hoër Meisieskool Bloemhof	Rohannette Janse van Vuuren	Taal teen tyd	B		
Hoërskool Bredasdorp	Liebe Neethling	Watter geslag is meer op sosiale media	B		
Hoërskool Overberg	Catharina Vice	Fonts het 'n invloed op hoërskool meisies se leesspoed	B		
Parel Vallei High School	Michaela O'Donoghue	The personality differences between "cat people" and "dog people"	B		
Paul Roos Gymnasium	Carel Mans	Can people sense it when other people stare at them?	B		
Rhenish Girls' High School	Salmah Jappie	Fingerprint pattern vs. personality	B		

SPORT SCIENCES



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Paul Roos Gymnasium	David Neil Lawrence	Rifling in paintball barrels, does it really help?	G	Junior: Best research project in Sport Sciences Sponsored by Faculty of Medicine and Health Sciences	
Bredasdorp High School	Gabriella Scott and Suné Chadwick	The correlation between the use of caffeine and sports performance	S		
Bridge House School	Lloyd Phillips	Testing the stimp of different surfaces	S		
Bridge House School	Louis-Franz Alberts	Shred up the penalty	S		
Hoërskool Bellville	Amore Olivier	Geslag en longkapasiteit	S	Senior: Best research project in Sport Sciences Sponsored by Faculty of Medicine and Health Sciences	
Parel Vallei High School	Ryan Kellerman	Mountain biking and heart rate	S		
Paul Roos Gymnasium	Leo Jay	Feel the burn	S		
Khanyolwethu Secondary School	Mbali Ngongoma	Walking and sport habits at Khanyolwethu Secondary School	B		
Rhenish Girls' High School	Cloe Whiteboyd	Distance vs. angle	B		

SUSTAINABLE DEVELOPMENT



School	Name and Surname	Title of project	Medal	Special prize 1	Special prize 2
Rhenish Girls' High School	Tyla Wiggins	Re-garettes	G	ESKOM: Overall best research project by a girl Sponsored by Faculty of Education & ESKOM	Senior: Best project in Sustainable Development Sponsored by Education Faculty
Bloekombos High School	Mavalantiya Sanelise and Siphungo Ukho	Shoe dryer	B		