

**Stellenbosch Regional Expo**  
**Virtual competition**  
**RESULTS 2020**



**GOLD**

Category	Name	Project Title	School
Agricultural Sciences - Animal Husbandry	Amelié Strauss	Met 'n larwe in die mond is jy sommer gesond.	Bloemhof Hoër Meisieskool
Agricultural Sciences - Crop Sciences	Lara Truter and Sunelle Maass	Die effek van Cannabaceae Sativa Hemp as blaarvoeding op saailinge.	Bloemhof Hoër Meisieskool
Biomedical and Medical Sciences - Food Science and Technology	Anika De Vries	Die invloed van lug op die kwaliteit van wyn	Bloemhof Hoër Meisieskool
Biomedical and Medical Sciences - Food Science and Technology	Emma Paige Beckley	Relationship between ripeness of bell peppers and vitamin C concentration	Curro Durbanville High School
Biomedical and Medical Sciences - Health Care	Annette Mari Bruwer	Mussie om premature babas se liggaamstemperatuurverlies te voorkom.	Bloemhof Hoër Meisieskool
Biomedical and Medical Sciences - Health Care	Hanré Coetzee and Nadine Estelle Pretorius	Die belangrikheid van handewas in laerskole	Lochnerhof Primary School
Biomedical and Medical Sciences - Health Care	Nicolas Smit	Bied hoër sonbeskermingsfaktor (SPF) sonrome beter beskerming teen ultravioletstrale?	Paul Roos Gymnasuim
Biomedical and Medical Sciences - Human Physiology	Vaughn Smith	Snuf in die neus?	Paul Roos Gymnasuim

Category	Name	Project Title	School
Biomedical and Medical Sciences - Microbiology	Danielle Millard	Hoe konsentrasies van ontsmettings- en skoonmaakmiddels bakterieë beïnvloed.	Bloemhof Hoër Meisieskool
Biomedical and Medical Sciences - Microbiology	Chido Tambara and Iyabazi Rojie	Bacteria elimination by various household disinfectants	Curro Durbanville High School
Biomedical and Medical Sciences - Veterinary Sciences	Marietjie Jeanne Cilliers	Health state of dogs on plant-vs meat-based diets	Parel Vallei High School
Computer Sciences and Software Development - Software Systems	George De Kock	Solving quadratic and cubic equations	Bredasdorp High School
Computer Sciences and Software Development - Software Systems	Markus Daniel Nel	Kan kunsmatige neurale netwerke onderskei tussen verskillende mense se handskrif?	Paul Roos Gymnasuim
Earth Sciences - Geology	Julia Rosalie Du Plessis	Hoe oud is fossiele? Datering volgens sirkoonmorfologie.	Bloemhof Hoër Meisieskool
Earth Sciences - Soil Sciences	Anouk Moolman	Groen is goed, vermikompos is volhoubaar	Bloemhof Hoër Meisieskool
Engineering - Electrical - Electronics and Embedded Systems	Catherine Ann Kies	Handprostese beheer deur elektromiografie	Bloemhof Hoër Meisieskool
Engineering - Electrical - Electronics and Embedded Systems	Benjamin Hans van Dijk	Stock taking robot	Protea Heights Academy
Engineering - Electrical - Electronics and Embedded Systems	Ivor Kock and Jude Wells	Can robots react to different colour stimuli?	Protea Heights Academy

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Engineering - Electrical - Electronics and Embedded Systems	Michael Shepstone	Robotics for all	Reddam House Somerset
Energy - Energy Productivity	Willem Rossouw Van Niekerk and Daniel Theron	Die mees effektiewe manier om residensiele sonpanele te was.	Lochnerhof Primary School
Energy - Energy Productivity	Teon Kleynhans and Werner Badenhorst	Kragopwekking uit borrels	Parel Vallei High School
Energy - Renewable Energy	Joshua Cupido	Investigation on the properties of biomass in relation to biogas	Curro Durbanville High School
Energy - Renewable Energy	Zandré Marx	Electricity from Soil	Paul Roos Gymnasuim
Environmental Studies - Environmental Management	Johannes Hermanus Lutz	Die gebruik van was om water van mikroplastiek te suiwer	Paul Roos Gymnasuim
Environmental Studies - Sustainable Development	Mila Thiart	Die laaste strooi	Bloemhof Hoër Meisieskool
Physics - Astronomy and Space Sciences - Astronomy and Space Sciences	Jamie Lee Kersting	Investigating the most light polluted areas in the Helderberg basin	Paul Roos Gymnasuim
Plant Sciences - Plant Physiology	Kyla Malan	Sonneblomme se geheime wapen	Protea Heights Academy
Social Sciences - Human Behaviour	Alexander Brink Van der Merwe	Can you spot the fake: Computer generated vs human art	Paul Roos Gymnasuim

# SILVER

Category	Name	Project Title	School
Agricultural Sciences - Crop Sciences	Cornelius Johannes van Rooyen	Optimale tamatieplant spasië	Paul Roos Gymnasium
Animal Sciences - Entomology	Lauren Amariz van der Westhuizen	Lord of the fly bait	Curro Durbanville High School
Biomedical and Medical Sciences - Food Science and Technology	Zhanel Beeselaar	Vet en pasteurisasie se invloed op melk se skuimbaarheid.	Bloemhof Hoër Meisieskool
Biomedical and Medical Sciences - Food Science and Technology	Uchindami Nyirenda	Building the calorimeter: Investigating the calories of everyday snacks	Protea Heights Academy
Biomedical and Medical Sciences - Microbiology	Oracia Odayan	Do detergents really do their jobs?	Protea Heights Academy
Chemistry and Biochemistry - Organic Chemistry	Danelle Gerstner	Tannienvlek verwydering	Bloemhof Hoër Meisieskool
Chemistry and Biochemistry - Organic Chemistry	Wian Cilliers	Hoe gis se fermentasie suurgehalte en rysvemoë in suurdeegbrood beïnvloed.	Paul Roos Gymnasium
Engineering - Electrical - Electronics and Embedded Systems	Michael Myburgh	Die herlaai van selfone in afgeleë gebiede waar elektrisiteit onbeskikbaar is.	Paul Roos Gymnasium
Engineering - Mechanical and Aeronautical Engineering	Ethan de Wet	Rocket fuels' effect on the height of a bottle rocket	Curro Durbanville High School
Energy - Renewable Energy	David Michael Chemaly	Generating electricity through tidal energy	Paul Roos Gymnasium
Mathematics - Statistics and Probability	Albert Gideon Diedericks	Akkuraatheid van Suid-Afrikaanse COVID-19 infeksies statistieke	Curro Durbanville High School

Category	Name	Project Title	School
Physics - Astronomy and Space Sciences - Material Sciences	Chloe Elizabeth De Brauwere van Steeland and Cara Franken	Brandresies	Bloemhof Hoër Meisieskool
Physics - Astronomy and Space Sciences - Matter and Materials	Georgia Tyler Sobotker and Izabella Mayra Hammond	Evaporation situation	Protea Heights Academy
Plant Sciences - Plant Physiology	Marné Louw and Sumari van Blerk	Crossing all the t(ea's)	Bloemhof Hoër Meisieskool
Social Sciences - Human Behaviour	Amor Rhode	Can your mental health influence the state of COVID 19?	Curro Durbanville High School
Social Sciences - Human Behaviour	Shaun Lee Stander and Pieter Willem Ewan Kruger	The power of 7 - myth and/or fact?	Curro Durbanville Primary
Social Sciences - Human Settlements	Evan Julies	Word huishoudings in informele nedersettings beoordeel?	Touwsrivier Primere Skool
Social Sciences - Psychology	Benjamin van Onselen	Covid 19 Mental blockdown or not	Paul Roos Gymnasuim

# BRONZE

Category	Name	Project Title	School
Agricultural Sciences - Crop Sciences	Aidan Chad Wilson	The influence of different concentrations of fertilizer on plant growth	Curro Durbanville High School
Biomedical and Medical Sciences - Health Care	Camryn Jade Robson and Angelica Ena Deel-Smith	The effects of dehydration on the human body	Curro Durbanville High School
Biomedical and Medical Sciences - Medical Science	Tamzhin Valentine	Vitiligo Inheritory	Tuscany Glen High School
Earth Sciences - Atmospheric Sciences	Joaline Delpont	Algae-the air purifier	Hermanus High School
Earth Sciences - Water Sciences	Tayla Esau and Sydney Muller	Effect of temperature and pH on the rate of freezing	Curro Durbanville High School
Engineering - Electrical - Electronics and Embedded Systems	Thea-Mari Roos	Elektriessommeerder	Bloemhof Hoër Meisieskool
Engineering - Electrical - Electronics and Embedded Systems	Mauritz Acker	Solar is Brighter	Protea Heights Academy
Engineering - Electrical - Electronics and Embedded Systems	Anja Van der Merwe	Light up - Keep your cool	Bloemhof Hoër Meisieskool
Environmental Studies - Environmental Management	Wyatt Rossouw	Spekboom=CO2 eaters!?	Welgemoed Primary school
Environmental Studies - Sustainable Development	Zoe-Jane Davies	Eco-friendly hats	Curro Durbanville Primary
Mathematics - Statistics and Probability	Euan Muller	Calculating the treatment cost for Covid-19 in South Africa	Curro Durbanville High School