



Young
Scientists
Kenya
INSPIRE INFORM EMPOWER

NATIONAL SCIENCE & TECHNOLOGY EXHIBITION

#YSKenya

2023 Exhibition Guide



#YSK2023 #YSKNational Exhibition2023 #LeaveNoLearnerBehind #KIW2023



Ambasáid na hÉireann
Embassy of Ireland



REPUBLIC OF KENYA

MINISTRY OF
EDUCATION

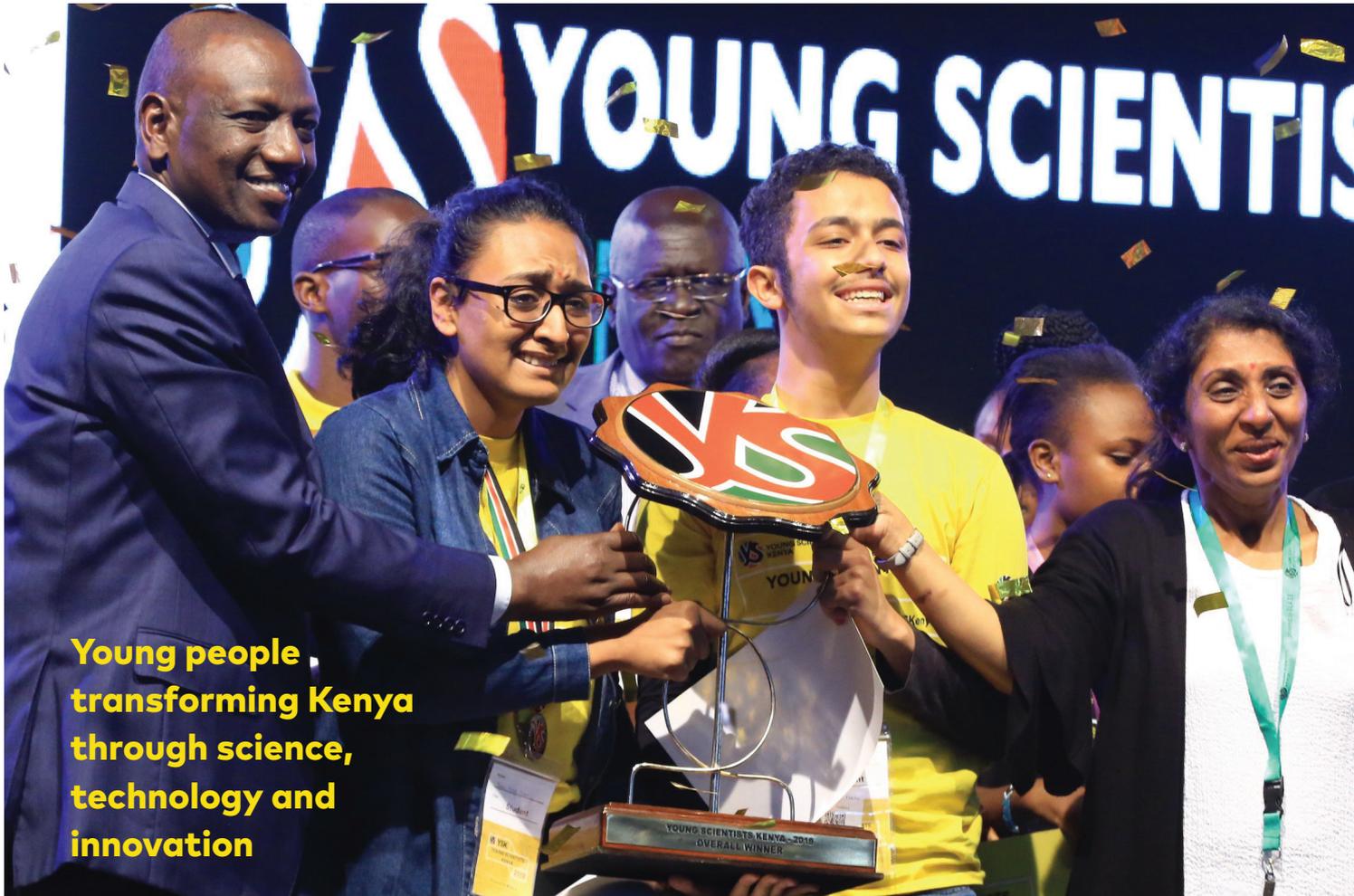




**Young
Scientists
Kenya**

INSPIRE INFORM EMPOWER

SCIENCE FOR DEVELOPMENT



**Young people
transforming Kenya
through science,
technology and
innovation**

 [YoungScientistsKenya](#)  [@YST_Kenya](#)  [@YSTKenya](#)  [Young Scientists Kenya](#)

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About Young Scientists Kenya

Young Scientists Kenya (YSK) is the premier national science competition in Kenya; our mission is to inspire and empower the next generation of young scientists, innovators, and entrepreneurs to transform their communities through Science, Technology, Engineering, and Mathematics (STEM). YSK was started in 2017 by the Ministry of Education and the Embassy of Ireland and complements the Kenya Science and Engineering Fair. To date, we have reached over 200,000 secondary students from over 750 schools in all 47 counties, through physical and virtual STEM Outreach and Mentorship programs, as well as five annual STEM exhibitions and boot camps. Our "Leave No Learner Behind" campaign aims to impact the most disadvantaged students with dedicated and tailored mentorship in collaboration with strategic STEM and technology partners.

About the 6th National Science and Technology Exhibition

The **2023 YSK National Science and Technology Exhibition (NSTE)**, now in its 6th edition, will be held from 27th November to 1st December 2023 at the Edge Convention Center, Nairobi, in partnership with the **Kenya Innovation Week (KIW)** - a flagship forum held in Kenya, organized by the Government of Kenya through the **Kenya National Innovation Agency (KENIA)**.

The YSK theme for this year's exhibition is **"Developing Sustainable Solutions for Climate Change"**. The exhibition format will be a virtual-physical hybrid model bringing some attendees to participate in person while the majority will join the event virtually. We have partnered with KIW, whose edition for this year is Commonwealth Edition, which will bring together over 5 heads of state and guests from 20 commonwealth countries, with His Excellency, President Dr. William Ruto expected to preside over the Opening Ceremony on Monday, 27th November 2023. The Closing and Award Ceremony will take place on Wednesday 29th November 2023, from 2pm, in Ballroom 3 at the Edge Convention Center.

This year, the Exhibition will bring 418 students (230 girls and 188 boys), showcasing 209 projects in four award areas. It is a culmination of activities including mentorship and engagement of over 6,000 students through outreach and coding programs; and a Winners Boot camp in August 2023 for 40 students that provided actualisation, entrepreneurship training and linking students to mentors from industry.



Message from the Chairman of the YSK Board

On behalf of the Young Scientists Kenya (YSK) Board, it is my great pleasure to welcome you to the 6th YSK National Science and Technology Exhibition in Nairobi, in partnership with the Kenya Innovation Week (KIW) – Commonwealth Edition.

This Exhibition aims to inspire students to pursue STEM pathways, showcase their scientific research, technologies, and innovations, and create linkages and build their skills for further research and commercialization. Our objective is to create a sense of hope, purpose, and value for young minds as they participate in finding solutions to real-world challenges.



Our "Leave No Learner Behind" initiative launched in 2020 has seen us collaborate with strategic STEM and technology partners to impact the most disadvantaged students in Arid and Semi arid Lands, Urban informal settlements, and other rural communities. Investing in science and technology is fundamental to the development of innovation, which is paramount to economic development, and specifically the achievement of The Bottom-up Economic Transformation Agenda (BETA). The YSK initiative targets Kenya's greatest resource – our young people – and helps them to achieve their potential as future innovators, leaders, and entrepreneurs of Kenya. This year, young people have embarked on a journey of innovation, and for the national exhibition we have received project entries from 402 secondary students from 209 schools, including five special needs schools, drawn from every corner of Kenya's 47 counties. This hybrid National Exhibition will have 110 students showcasing 54 projects here at the Edge Convention Centre. But that's not all - an additional 155 projects will be showcased through our digital platform, ensuring the world has a front-row seat to the future of Kenyan innovation.

I want to thank the Irish Embassy as our platinum sponsor. Special recognition to the Institute of Physics (IOP), Liquid Intelligent Technologies, the Centre for Mathematics, Science and Technology Education in Africa (CEMAS-TEA), Tononoka Group, Kerry Group, Kenya National Innovation Agency (KeNIA), Kevian Kenya, Skanem Interlabels, Safaricom, Concern Worldwide, Education in Ireland, Mtoto News and Trace TV, and V W Maina & Co Advocates, among other sponsors and partners. I also want to thank our partners Raspberry Pi Foundation, and Google as well as Strathmore University and Premchandbhai Foundation who have supported our coding projects and scholarships to students. This Exhibition would not have been possible without their generous support and enthusiasm for making science education accessible to all students in Kenya.

We are profoundly grateful to our public sector partners who have invested in this vision. I say to the students who have submitted their projects and those competing here today, "Congratulations!" Your fantastic work reflects your ingenuity, innovation, and dedication. You are the future of Kenya, and the entire nation is eagerly watching, awaiting your revelations, discoveries, and inventions. Throughout this event, you can win prizes from our cherished partners with trophies, cash rewards goodie bags. But beyond the awards, remember that this journey is about more than just winning. It's about fostering your love for science, technology, engineering, and mathematics. It's about learning, growing, and collaborating with peers who share your passion. It's about changing the world one innovation at a time.

To the YSK Secretariat, thank you for your tireless efforts in making this event a reality. To the YSK Board, parents, volunteers, and partners, your unwavering support, energy, and passion have made this day possible. We are all here because of you. As we step into the 6th Annual National Science and Technology Exhibition, let us celebrate the incredible potential of our young people. Let their imagination and innovation inspire us because we shape a brighter future for Kenya and the world.

Thank you

Ben Roberts

YSK Board Chair

Group Chief Technology and Innovation Officer

Liquid Intelligent Technologies

Message from the Ambassador of Ireland to Kenya



Greetings and welcome to the Young Scientists Kenya (YSK) – the exciting and innovative National Science and Technology Exhibition that champions and nurtures the upcoming generation of Kenyan scientists, innovators, and entrepreneurs.

The friendship between Ireland and Kenya today reflects many common values our strong commitment towards peace and stability, education, youth empowerment and action on climate change. These shared values are embodied in our collaboration on YSK, as we convene to celebrate the pioneering projects crafted by over 400 students from across Kenya in the areas of Science, Technology, Engineering, and Mathematics. We also congratulate all of the participants and their spirit of innovation and dynamism, and acknowledge the important contribution of young people in Kenya to our shared global future.

As Ireland's Ambassador to Kenya, I am delighted to see YSK growing from strength to strength each year, and to witness the enthusiasm with which it has been embraced by Kenya's Government, educators, students, and the private sector. Co-founded by our Embassy and the Kenyan Ministry of Education in 2017, Young Scientists Kenya continues to grow and is being rolled out across all 47 counties, reaching more than 200,000 students from over 700 schools. Through the National Science and Technology Exhibition, secondary school students have presented over 1,000 projects and have experienced the excitement and fun of science. We continue to work together to inspire young people in Kenya to embrace STEM and apply their talents to critical challenges facing our shared world.

The original Young Scientists competition was introduced in Ireland over six decades ago and played an important role in promoting science and technology research and education, which have been extremely important in Ireland's economic development and developing the talents and skills of our young people. The Government of Ireland, through our Embassy in Nairobi, is fully committed to collaborating with the Kenyan Government, the private sector and academic community, building upon the strong foundations laid by Irish missionaries who provided quality education in Kenya for many decades. Together we will work to stimulate greater interest in STEM subjects and careers, enhance the quality of science education and ensure Kenya benefits from the brilliance and ingenuity of its young talent, just as Ireland has benefitted from ours.

Like all successful partnerships, Young Scientists Kenya involves hard work, belief and perseverance. These qualities are abundantly evident in the remarkable projects presented by hundreds of talented and committed students at the Edge Convention Center this week.

We can be reassured that our shared future is in capable hands.

H.E Caitriona Ingoldsby

Irish Ambassador to Kenya



Young
Scientists
Kenya

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NATIONAL SCIENCE AND TECHNOLOGY EXHIBITION 2023

Developing Sustainable Solutions for Climate Change



  /YoungScientistsKenya  @YSTKenya

 www.yzk.co.ke



Programme of events

27th Nov - 1st Dec 2023 Edge Convention Center Nairobi

DAY 1	Monday, 27th November 2023
8:30 AM - 8:30 AM	Students' registration and finalizing at exhibition booths for guests tour
8:30 AM - 9:00 AM	Arrival of VVIPs, guests and exhibitors
9:00 AM - 9:30 AM	VVIP Guided tour of Exhibition booths
9:30 AM - 12:00 NOON	KIW Official Opening Ceremony
13:00 PM - 14:00 PM	Lunch
14:00 PM - 16:00 PM	Commonwealth Secretary - General's Innovation for Sustainable Development Awards
DAY 2	Tuesday, 28th November 2023
8:15 AM - 8:30 AM	Students registration and final touch ups for judging
8:30 AM - 9:00 AM	Judges arrival and registration
9:00 AM - 9:30 AM	Judges briefing and address by Chief Judge
9:45 AM - 12:45 PM	Judging of student projects Teachers session w/ The Tech Interactive
13:00 PM - 14:00 PM	Lunch
14:00 PM - 16:00 PM	YSK participation in Youth Summit Opening Ceremony
DAY 3	Wednesday, 29th November 2023
8:15 AM - 8:30 AM	Students registration and final touch ups for judging
8:30 AM - 9:00 AM	Judges arrival and registration



	Final judging and compilation of results
9:00 AM - 9:30 AM	Teachers session in the Students' Innovation Summit
11:15 AM - 12:45 PM	Teachers' Feedback Session with Judges
13:00 PM - 14:00 PM	Lunch
14:00 PM - 16:00 PM	YSK Awards and Closing Ceremony

DAY 4 **Thursday, 30th November 2023**

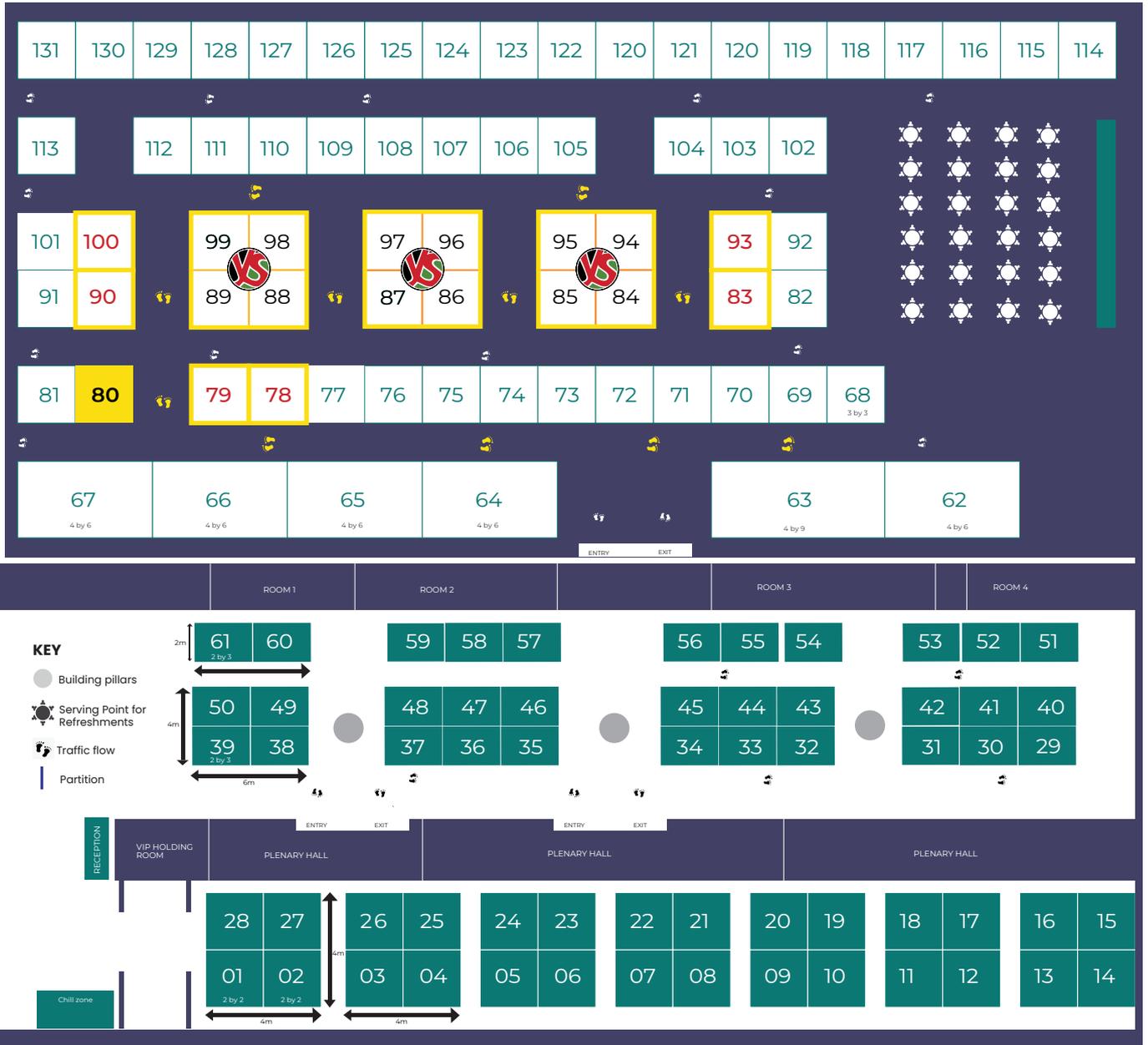
8:15 AM - 8:30 AM	Students arrival and registration
8:30 AM - 9:30 AM	Students Participation in From Pitch to Prosper: A Young Entrepreneurs' Ted Talk
9:45 AM - 12:45 PM	Oscar's Olympiad Pitch Sessions Round 1
13:00 PM - 14:00 PM	Lunch
15:00 PM - 16:00 PM	Oscar's Olympiad Pitch Finalists Pitching
16:00 PM - 17:00 PM	Students' Innovation Summit Concert and Awards

DAY 5 **Friday, 1st December 2023**

8:30 AM - 9:30 AM	YSK Tree Planting event
9:45 AM - 11:45 AM	Student engagement Partner visit
12:00 AM - 12:45 PM	YSK students and teachers transit to the Edge Convention Center
13:00 PM - 14:00 PM	Lunch
14:00 PM - 16:00 PM	KIW Awards Ceremony



Exhibition Floorplan



YSK Booth

80

YSK Partner Booths

78 79 83 90 93 100

Students Project Exhibition Space

84 85 86 87 88 89

94 95 96 97 98 99

Judges

HEAD JUDGES

YSK CHIEF JUDGE

**Prof.
Anne Muigai**

Deputy Vice - Chancellor
Academic Affairs and
Research
National Defense
University - Kenya



CPM HEAD JUDGE

Dr. June McCombie
Honorary Fellow
The University of
Nottingham



BE HEAD JUDGE

Dr. George Makalliwa
Senior Lecturer Microbiology
Molecular Biology and Biochemistry
Department
JKUAT



TECH HEAD JUDGE

Dr. Michael Kimwele
Director
School of Computing &
Information Technology
JKUAT



SB HEAD JUDGE

Dr. Dennis Magu
Senior Medical Epidemiologist
& Senior Lecturer at College of
Health Sciences
JKUAT

Alex Polycap

Founder Go Green Hub

Amos Arumba

Certified Microsoft Innovative
Educator

Andrew Odhiambo Oduor

Lecturer Maseno University

Anthony Luvanda

Senior Lecturer
National Defence University
Kenya

Athanas O. Owako

Author
Stem & Lab Encyclopedia

Austine Amukayia Mulama

Lecturer Maseno University

Becky Aloo

Microbiologist

Beth Wangui

Agribusiness Consultant

Bonface K. Jiveri

Research Assistant,
Kaimosi Friends University
College

Brian Owuor

Research Associate, Arin

Castro Jasper Sakhame

Medical Student & Researcher,
The University of Nairobi

Charity Wanjiku Ng'ang'a

Food Product Developer,
County Government Of Nyeri

Cornelius Kihungu

Cloud Infrastructure Engineer

Denis Gichana

Teacher

Dennis Githinji Kiboi

Software Developer,
Moringa School

Dennis Kithinji

Founder,
Medright Consulting Limited

Dr. James Mugambi Linturi

Senior Lecturer,
South Eastern Kenya
University

Dr. Martin Riara

Head of Department of
Physical Sciences,
South Eastern Kenya University

Dr. Victor Rop

Researcher

Emmanuel Kwegenya

ICT Specialist

Esther Njuguna

Entrepreneur

Evans Kipkoach Sang

ICT Specialist

Ezrah Ongubo Nyaega

Project Management Consultant

Florence Lukamba Munoko

Teacher

Githio Valerie

Ux Designer

Gladwell Ndoria

Biomedical Scientist

Godfrey Odhiambo

Phet Fellow
University Of Colorado

Ibrahim Ahmed Hassan

Mandera North Youth Council

Janet Chesire

Teacher

Jackline Muthoni Mwangi

Advocate,
High Court Of Kenya

Jared Leslie Olubayi

Telecom & Info Engineering,
Dedan Kimathi University of
Technology

Jasin Owili

Founder & Director
AfriBot Robotics Limited

Joel Kipruto

Teacher

John Slater Ogot

Founder,
Bigbrainz Solutions Ltd

Jonathan Ang'ani Omuchesi

Lecturer,
Catholic University of East
Africa

Juliet Awino Nyakwaka

Wote Technical Training Institute

Kathleen Vaughan

Leadership Solutions Associate

Kevin Gichana Ombati

ICT Specialist

Kevin Odero

IOT Product Lead
Angaza Elimu

Kihiu Julia

Teacher

Koech Benard

Youth Ambassador,
Theirworld Global

Laban Chweya

Microbiologist, Tutor and
Mentor

Lameck Joash Menya Otieno

Private Fisheries Consultant &
Lecturer,
University of Eldoret

Lewis Nzuki

Deputy Director ICT, Public
Communication, Research &
Library deputy Director Ict,
Public Communication,
Research & Library
County Assembly of Makueni

Magdalene Wangui Wanyaga

Geophysicist Sandrose Ltd

Maobe Erickson

Teacher

Mark Kimani

Lecturer,
University of Embu

Mark Orina Oisera

Devops Engineer
Impact Africa Network

Mary Wanjau

Lecturer,
PAC University

Milka Karegi Mputhia

Msc Bioinformatics,
Pwani University

Nancy Anyango

Software Developer

Nashon Wigina Bogingo

Software Development Engineer
Chipkin Automation

Nicodemus Maingi

Technical Advisor
ICT4d

Ouma George

Lecturer,
Department of Information
Technology,
Maseno University

Peter M. Bushnell

Master Trainer
ICT Integration In Education
(CEMASTEA)

Phoebe Akinyi Mbadi

Researcher,
ICIPE/ University Of Nairobi

Phyllis Atieno

Community & Developer
Relations Manager
Chimoney

Prof. Chrispin Kowenje

Associate Professor,
Maseno University

Richard Rimiru

Lecturer
JKUAT

Rose Fina Barasa

Project Lead
Telehealth Project
Rotary District 9212

Ruth Nekoye

Education Liaison Officer
Liquid Intelligent
Technologies

Sammy Mate

Group Head
ALN Kenya

Samuel Onyoso

Ed Tech Consultant

Simeon Abba

Riara University

Simon Wandera

Founder,
Agro-Biashara

Stanley Onyango

Rafiki Microfinance

Stella Wanjiru

Product Finance

Sylvester Haya

Msc Genetics,
Kenyatta University

Timothy Mathenge

Intern
Nutrition Information &
Knowledge Management
United Nations

Vincent Lung'aho

Teacher

Wafula Samwel Wanyonyi

Founder,
Alive 365 Kenya

Walter Kihuya

ICT Tutor
JKUAT

Dr.-Ing. Wamai Mwangi

Lecturer,
Department of Mechatronic
Engineering
JKUAT

Wedgener Sindani Mugatsia

Environmental & Social
Safeguards Consultant

Wedgener Sindani Mugatsia

Environmental & Social
Safeguards Consultant

Wilter Bosibori Abere

Teacher

Awards



Young Scientists Kenya Overall Winner 2023

Young Scientist Kenya of the Year
2023 Trophy
Mobile phones provided by Safaricom
A cheque for Kshs. 100,000
Teacher supporting this team
receives a cheque for Kshs. 20,000
Tertiary Scholarship for STEM Course



Overall Runner Up

Young Scientist Kenya of the Year
2023 Runner Up Trophy
Mobile phones provided by Safaricom
A cheque for Kshs. 80,000
Teacher supporting this team
receives a cheque for Kshs. 15,000



Category Awards

The category awards will recognize the 1st and 2nd projects from each of the four scientific categories.

1st Prize consists of a Category Award

Trophy, Mobile phones provided by Safaricom and cheque for Kshs. 60,000

2nd Prize consists of a Category Award

Trophy, Headsets and cheque for Kshs. 40,000

3rd Prize consists of a Category Award

Trophy, Headsets and cheque for Kshs. 30,000

The teachers supporting these projects will also receive cheques in the amount of Kshs. 10,000

Special Awards

The YSK Special Awards recognise excellence in specific areas. Each Special Award is unique and will be presented by our partner organisations. These awards include Innovative projects in: Agricultural Issues, Energy, ASAL Region, IoT, Health, STEM Inclusivity, Ed-Tech, Environmental Conservation; the Science for Development award; and the People's Choice Award. Trophy, Headsets and cheque for Kshs. 10,000
Teacher supporting this team receives a cheque for Kshs. 5,000

Teacher of the Year and Mentor of the Year award

Trophy and cheque for Kshs. 10,000

Participating Schools

NAIROBI REGION SCHOOLS

Nairobi County

1. Loreto Convent Msongari
2. Nairobi School
3. Olympic High School
4. St. Michaels Secondary School
5. The Kenya High School

RIFT VALLEY REGION SCHOOLS

Baringo County

1. Ossen Girls High School

Bomet County

1. St. Monica Girls Chebangang Secondary School

Kajiado County

1. Edmund Rice Catholic Educational Center
2. Nkoroi Mixed Day Secondary
3. St. Marks Kiserian Mixed Day Secondary School

Kericho County

1. Moi Kipsitet Girls' Secondary School

Laikipia County

1. Njonjo Girls High School

Nakuru County

1. Moi Forces Academy - Lanet
2. Nakuru High School

3. St. Michael Gatagati Secondary School

Samburu County

1. Kirimon Mixed Day Secondary

Trans Nzoia County

1. Kiungani Secondary School
2. Tuwan Girls Secondary School

Turkana County

1. St. Kevin's Secondary School

Uasin Gishu County

1. Moi Girls High School Eldoret
2. Nova Pioneer Eldoret Boys

West Pokot County

1. ACK Meshack Tumkou Secondary School

EASTERN REGION SCHOOLS

Embu County

1. Moi High School Mbiruri
2. Nguviu Boys High School

Isiolo County

1. Isiolo Barracks Secondary

Machakos County

1. Kyumbi Secondary School
2. Machakos Secondary School For The Deaf
3. Matungulu Girls School
4. Sengani Girls Secondary School

Makueni County

1. Kyamuoso Central Secondary School

Meru County

1. Timau Day Secondary School

NORTH EASTERN REGION SCHOOLS

Wajir County

1. Senior Chief Adano Girls High School

Mandera County

1. Sheikh Ali High School

CENTRAL REGION SCHOOLS

Kiambu County

1. Alliance Girls High School
2. Juja Preparatory And Senior Schools
3. Kiambu Township Secondary School
4. PCEA Karai Mixed Secondary School
5. Ruiru Boys High School

Murang'a County

1. St. Alexis Ruchu Girls High School

Nyandarua County

1. Gatondo Secondary
2. Githinji Secondary School
3. Githunguchu Secondary School
4. Mahindu Secondary School
5. Mt. Kinangop Girls Secondary School
6. Nandarasi Secondary School
7. Ndemi Secondary School
8. Nyakiambi Girls Secondary
9. Nyakiambi Girls Secondary

NYANZA REGION SCHOOLS

Homabay County

1. Lwanda Kawuor Mixed Secondary School
2. Mbita High School
3. Nyamanga Mixed Secondary School
4. Orero Boys High School

Kisii County

1. Hema High School-Chitago
2. St. Angela Sengera Girls' High School

Kisumu County

1. ACK Rae Girls Sec
2. DHT Kisumu Senior Academy
3. Jalaram Academy
4. Joyland Special Secondary
5. Kisumu Girls High School
6. Maseno School
7. Nyando Mixed Secondary School
8. Rapogi Mixed Secondary School
9. St. George Special Secondary School
10. St. Barnabas Girls' Secondary School

Migori County

1. Kameji Mixed Secondary School
2. Kanga High School
3. St. Josephs School Rapogi

Nyamira County

1. Kerongeta Secondary School
2. St. Paul's Gekano Boys High School

WESTERN REGION SCHOOLS

Bungoma County

1. Bungoma High School
2. Cardinal Otunga Girls High School
3. Joy Valley Special School For Physically Handicapped
4. Moi Girls High School Kamusinga
5. Myanga Secondary School
6. St. Stephens Sikusi Boys
7. Secondary School
8. St. Mary's Kamba Secondary School

Busia County

1. Hakati Secondary School
2. Lwanya Girls Secondary School
3. St. Thomas Amagoro Girls Secondary School
4. St. Aloys Buriya Mixed Secondary School

Kakamega County

1. Musingu High School

Vihiga County

1. Kaimosi Girls High School
2. Kisangula Secondary School
3. Viyalo Secondary School

COAST REGION SCHOOLS

Kilifi County

1. Bahari Girls Secondary School
2. Dungicha Secondary School
3. Malindi High School
4. Ngala Memorial Girls Secondary School
5. Ribe Boys High School
6. St. John's Girls' Secondary School

Kwale County

1. Kichakasimba Girls' Secondary School
2. Matuga Girls High School

Mombasa County

1. Likoni Secondary School
2. Memon Academy High
3. Moi Forces Academy - Mombasa
4. Shree Swaminarayan Academy
5. Toto Creative Arts And Learning Centre

Taita Taveta County

1. Canon Kituri Sec School
2. Chala Secondary School
3. Kenyatta High School-Mwatate
4. Mwambonu Secondary School
5. Timbila Boys High School

Tana River County

1. Garsen High School

Students' Projects



Social and Behavioural Sciences

Projects in this category cover Social and Behavioural Sciences, economic, geographical, psychological and sociological studies of human behaviour, attitudes and experience within their environment.

Showcasing in Nairobi

#	School Name	Title of the Project	Students	Teacher
1	Bungoma High School	Effect of Automating Walking Stick on The Behaviour of The Visually Impaired Persons	Derrick Lubale Michael Angulu	Murunga Phiilan
2	Moi Forces Academy – Lanet	I-Care	Semeiyan Le-Loina Lucy Sogomo	Rahab Mwangi
3	Shree Swaminarayan Academy	Disability Is Not an Inability: Usawa Pamoja	Sanskriti Divyanshu Panchal Diya Sujay Khataw	Charlene Colaco Charania
4	Githinji Secondary School	Mood and Colour Psychology	Richard Gathigi Wambui Ann Waithera Mwihaki	Onesmus Njeru Munyi
5	Kisumu Girls High School	Gender Based Violence	Shantel Atieno Paola Omole	Christine Adhiambo
6	Viyalo Secondary School	Jigger Infestation Care Formula and The Society	Maua Elizabeth Kamonya Diporah	Lowland Masaria
7	St. Angela Sengera Girls' High School	Baobab Flour Technology	Samantha Flora Fletcher Jane	Dr Dennis Osoro
8	Timbila Boys High School	Automatic Dustbin	John Mugo Stephen Gakami	Samuel Kyengo Mutie
9	Kiambu Township Secondary School	Janet's Face Mask	Janet Njeri Harry Makazi	Susan N. Wainaina
10	St. Monica Girls Chebangang	GLESCO	Glenda Scola Chebet	Korir Gideon Kipkoech
11	Tuwan Girls	Environment Conservation Efforts as A Tool of Solving Conflicts	Valentine Isendi Judith Orlando	Juliana Miheso

12	Kirimon Mixed Day Secondary	Colour Psychology	Beatrice Naitong' Lengolooni Mathayo Lachumbai Lesintiyu	Edwin Chebon Chesaro
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Online Exhibition

#	School Name	Title of the Project	Students	Teacher
13	Nyakiambi Girls Secondary School	Early Relationship	Pamela Awino Lucy Wairimu Maina	Ruth Ndung'u
14	Machakos Secondary School For The Deaf	Safe and Better Usage of Phones By Students In Schools, Kenya	Wellingtone Musume Bridgit Mutiso	Dennis Nyanje Ayoyi
15	Mbita High School	The Vital	Nixon Junior Stephen Junior	Nicholus Ogola
16	Dungicha Secondary School	Effects of High Temperatures on Milk Production (Dairy Cattle)	Jali Kazungu Kombe Shaban Charo Jonathan	Samoita Sengera Amos
17	Moi Forces Academy-Lanet	Sanitary Towel Dispenser	Mukung Cheptoo Vallarie Achieng'	Rahab Mwangi
18	Chala Secondary School	Mental Health Awareness	Camillah Shighadi Ann Pili	John Ndinguri Kamau
19	St. Monica Girls Chebangang	STEVA	Valentine Chepkoech Stephany Chelangat	Mr Korir Gideon
20	St. Monica Girls Chebangang	MEABI	Mercy Chelangat Abigael Chepkoech	Korir Gideon
21	Ack Rae Girls Secondary School	Role of Classical Music In Performance Of Stem Subjects	Ochieng Sara Akinyi Lavin Awour Otieno	Ogal Victor Onyango Owour
22	Ngala Memorial Girls Secondary School	Study Buddy Gadget 23	Bernice Shefo Valentine Mwangure	Wesonga Livingstone Rodgers
23	Bungoma High School	Unleashing the Electromagnetic Force	Thomas Nyakundi Racha Ibrahim	Leonida Chepkorir Soi
24	Shree Swaminarayan Academy, Mombasa	Sanaa Circle. Forging Creative Communities That Help Build Bridges Between Educators & Learners	Krishna Ghelani Manal Ahmed Ghulam	Shehreen Ladha

25	Ndemi Secondary School	Mnemonics and Memory	Maureen Mwangi Maryanne Wanjira	Cyrus Muhanga
26	St. Teresa of Avila Girls'- Ndalat	Classroom Noise Management	Brenda Jepchirchir Caren Jelimo	David Kipyego Rono
27	Kichakasimba Girls Secondary School	The C In CBC	Christine Kasukari Isika Ann Nduku Musyoki	Fidel Ochieng Otieno
28	Kaimosi Girls High School	The Impact of Colour on Students' Perception in Learning Spaces	Betty Karimi Patience Christine	Kimakwa Godfrey
29	Isiolo Barracks Secondary School	Causes of Chronic Absenteeism in Day Schools	Kennedy Mutembei Hawo Abdi	Kamenchu Regina
30	St. Monica Girls Chebangang	M-School	Mercy Chepkoech Dorine	Mr. Korir Gideon



Biology and Ecological Sciences

Projects in this category must have a biological and/ or ecological focus and investigate aspects of animal, human, microbial or plant biology.

Showcasing in Nairobi

#	School Name	Title of the Project	Students	Teacher
1	Edmund Rice Catholic Educational Center	Making Paper & Its Products From Cow Dung	Violet Chanya Nyoseba Davis Mwenda Muendo	Brian Gitonga
2	Nova Pioneer Eldoret Boys	Viable Alternative for Single Use Plastics	Kon Lual Ian Mwadiloh	Hillary Aguyo
3	Memon Academy High School	Plastic Chip Board	Abdullah Mujahid Siraj Mohamed	Mr. Josphat Mwanyalo Nzikali
4	Alliance Girls High School	Sensitive Patch	Edith Fuchaka Emmanuela Sanaipei	Mrs. Agnes Gitahi
5	St. Kevin's Secondary School	Making Of Shoe Polish	Victor Lomor Esekon Victor Ekai Eweet	Duncan Kemboi

6	St. Michael Gatagati Secondary School	Plant Cell Model for The Visually Impaired And Hearing Impaired	Peter Kidiga Mathew Yegon	Koros Wesley
7	St. Stephens Lwanya Girls Secondary School	Probiotics from Cabbage	Michelle Olivia Selline Akinyi	Ephraem Ngota
8	Juja Preparatory & Senior Schools	To Develop A Water Desalination System For Irrigating Desert Land & Domestic Use	Jasmin Wanjiku Michelle Mutheu	David Wekondi Munyikombo
9	Moi Kipsitet Girls' Secondary	Organic Bioremediation of Oil-Polluted Soils	Rehema Wambui Mercy Chepkoech	Too Cheruiyot Josphat
10	Kanga High School	Feather Fence System	Ian Nicholas Phelix Osawa	Marshall Onyango
11	Matuga Girls High School	Plastic Engineering	Salma Salim Deborah Mutinda	Rajab Tsuma
12	Joy Valley Special School for Physically Handicapped	Making Vases and Flowers from Locally Available Materials	Juma Daniel Ekirapa Sharon Lutomia	Ms. Mercy Ikhabi
13	DHT Kisumu Senior Academy	Eco Sprout Inhibitor for Food Security	Annika Parmar Devarshi Dixit	Calvine Oruko
14	Ossen Girls High School	Smart Capillary Wick Irrigation System for Home Gardens in Arid Zone	Agnes Kagonya Asinuli Alice Desosa	Mr.Cheruiyot Langat Gilbert

Online Exhibition

#	School Name	Title of the Project	Students	Teacher
15	Kenyatta School Mwatate	Sound Waves Mosquito Repellent - "Malaria Control Technology"	Shadrack Baraka Mwahanga Mustafa Abubakar Nyale	Kirigha Martin
16	Viyalo Secondary School	Artificial Blood Clotting Formula	Kageha Mary Opesa Bravian	Lowland Masaria
17	Kapsabet Secondary School for The Deaf	Dollan Tech	Allan Kirwa Doris Mutua	Alice A Okeyo
18	Kameji Mixed Secondary School	Mosquito Repellent Candle	Sharon Otieno Beryl Ouma	Boaz Nyamora Mokandu

19	Nakuru High School	Phytoremediation of Nakuru Waste Water Using <i>Celatophyllum</i> Spp.	Marcus Bernard Samuel Maina Kimani	Joseph Kahuria Mwangi
20	St. Michael Gatagati Secondary School	Biobana Paper	Bridgit Waithira Natasha Jeruto	Mrs. Karanja .P. Njoki
21	Mbita High School	Nebulosity Induction	Nixon Junior Stephen Junior	Nicholus Ogola
22	Nyakiambi Girls Secondary School	Weaving Mats and Decorations	Kihika Mercy Wangui Beverly Nyambura Mureithi	Douglas Ombati
23	Shree Swaminarayan Academy, Mombasa	DNA Extraction for The Conservation of Endangered Fruits and Plants in Kenya	Mummin Khairoon Farid Letitia Ombele	Nicodemus Obino
24	Jalaram Academy – Kisumu	Creation of Cheaper Fuel by Mixing Kerosene and Ethanol	Nandani Rakeshkumar Patel Justin Shava	Ms. Judith Orwa
25	Mbita High School	Water Waste Collector	Brayan Omondi Eroll Josephat	Nicholus Ogola
26	Shree Swaminarayan Academy	Carbon Dioxide Emission Reduction Using Spirulina	Bhudia Yashvi Kanji Noorani Zahra Tufail	Frank Osano
27	Alliance Girls High School	A Project Proposal for An Artificial Photosynthesis Air Cleaning Device in All Carbon Dioxide Emissions Sites in Kenya	Nicelyne Naishubai Ereu Shantel Adoko	Joseph Ojuku
28	Garsen High School	Automated Electronic Device for Wildlife Control	Dhadho Hamisi Mohamed Komora Eliyasafi Wachu	Titus Kiio Kaluli
29	Mt. Kinangop Girls Secondary School	Fresh Produce Cooling System	Monica Muthoni Miriam Njeri	Peter Mureithi Ndiritu
30	Memon Academy High School	Biodiesel from Chicken Feather	Muslima Saleem Manaal Mehboob	Josphat Mwanyalo Nzikali
31	Chala Secondary School	Smart Heartbeat Monitoring System	Sikije Violet Ndindi Diana Wambugha	John Ndinguri Kamau
32	St. Michaels Secondary School	Biofiltration Of Grey Water	Martha Nyariki Edwin Muriuki	Mr. Peter Machoka
33	Rapogi Secondary School	Action of Bacteria In Biogas Production	Joshua Opiyo Grace Awino Ochieng	Mr. Bonface Ombura

34	Alliance Girls High School	ENA System	Pearl Acom Enid Nduta	Agnes Gitahi
35	Alliance Girls High School	Hydroponic Agriculture	Concepter Ogeto Millcent Nyamweya	Collins Ogati Ayienda
36	Moi Forces Academy – Lanet	Environmental Sustainability and Renewable Energy	Victoria Otuma Tracy Ndiga	Mrs. Rahab
37	Moi Forces Academy – Lanet	Sustainable Food Preservation in Kenya: Designing and Building Clay Generators	Vanessa Wairimu Vivian Macharia	Rahab Wamucii Githae
38	Chala Secondary School	Quatitative Determination of Vitamin C of Selected Fresh Fruits at Different Ripe	Saumu Rashid Brian Tunge	John Ndinguri Kamau
39	St. Stephen's Sikusi Boys High School	Control of Cuscuta Campestris Weed	John Wafula Braiton Rainson Jaoko	Martin Wanjala Buyela
40	St. Stephen's Sikusi Boys High School	Purification of Water Using Moringa	Emmanuel Macharia Jack Wafula	Martin Wanjala Buyela
41	St. Stephen's Sikusi Boys High School	Locally Made Fertilizer	Faith Jepngetich Sharon Jebet	Meshack Kipkemboi
42	Mwambonu Secondary School	Dry Land Farming	Monica Damaris Nyanyom Mwamrizi Jonam Tole	Rofina Kiwo
43	Creative Arts & Learning Centre	Pressure Driven Water Filter Using Plant Xylem	Carolina Sonon Benitta Makena	Mr. Joseph Wamukoya
44	Moi Kipsitet Girls' Secondary	Organic Sanitary Pads	Ladona Talent Debra Chelangat	Too Cheruiyot Josphat
45	Maseno School	Car-Wash Waste Water Management	Derrick Omayio Hezron Sande	Joshua Otieno Muholo
46	Bungoma High School	Ultra Modern Farming System	Morris Mukare Derrick Ogega	Murunga Phillian
47	Gatondo Mixed Secondary School	JOYEM Charcoal	Joyce Wangui Jemmiah Wanjiru	Kelvin Amugashia
48	Sheikh Ali High School	Making Vinegar from Banana Peels	Alisokor Jamal Mohamed Abdullahi Dahia Hassan	Mr Hassan Abdullahi Issack

49	Mbita High School	The Energy Efficient Trash Can	George Ketenyi John Mwai	Benard Onyango
50	St. Monica Girls Chebangang	Midia Fluid	Diana Chepkorir Milka Chebet	Korir Gideon Kipkoech
51	St. Mary's Kamba Secondary School	"Smart" Biopesticide From Earthworms	Tembula Mepo Wabwile Mercy	Ezekiel Murani
52	St. Monica Girls Chebangang	Sheshe Pesticide	Sheila Chelangat Sheila Chebet	Korir Gideon Kipkoech
53	St. Monica Girls Chebangang	MEIV Shoe Polish	Mercy Ivon	Korir Gideon
54	Malindi High School	Space Farm Tech-Growing Plants in Microgravity to Simulate Space	Luka Lwambi Gideon Nyamu	Charity Mapenzi
55	Matungulu Girls High School	Generating Energy from Faecal Waste	Mercy Ngundo Valerie John	Zipporah Nzilani Muia
56	Hakati Secondary School	Effects of Nonselective Herbicides on GMO Cotton	Wycliffe Onyango Elvis Omondi Owino	Mildred Petinah Wadondera
57	St. Alexis Ruchu Girls High School	Crazy Easy DIY Mosquito Trap	Ann Wangari Njoroge Abigail Wairimu Wanjiru	Edward Mmasi
58	Joyland Special Secondary School	Smart Blocks from Water Hyacinth	Samwel Mwita Maryrose Auma	Angela M Kimeu
59	Kanga High School	Smart Irrigation System	John Junior San Ojwang'	Stephen Odhiambo
60	Isiolo Barracks Secondary School	Rain Clouds	Ayan Mohamed Roy Karani	Kamenchu Regina



Chemical, Physical and Mathematical Sciences

Projects in this category it must be based on chemistry, physics, mathematics, applied mathematics, engineering, computer programming and language or electronics.

Showcasing in Nairobi

#	School Name	Title of the Project	Students	Teacher
1	Shree Swaminarayan Academy	Combating Global Warming with Sustainable Technology: The Carbon Absorber	Abdallah Khalid Suleiman Fahd Farhan Qureshi	Enock Osoro

2	Lwanda Kawuor Secondary School	Portable Fume Chamber	Henry Juma Loice Lorine	Daniel Odoyo Obanda
3	Bahari Girls High School	Automatic Sea Vessel Accident Reporting Device	Amina Kana	Moureen Mwende Dianga Al-Imran
4	St. Angela Sengera Girls' High School	Moringa Oleifera Biodiesel	Dollycate Nebuchadnezzar Melody Kerubo	Dr. Dennis Osoro
5	Cardinal Otunga Girls High School	Clay-Sugar Cane Bagasse Geopolymer For Elimination of Lead (Ii) From Water	Annah Adhiambo Faith Shihafu	Chirikona Flora
6	Orero Boys High School	Spatial Ribbon Audio Transducer	Edgar Mecha Ogunyo George Zachious Ojong	Mr. Robinson Odhiambo Omolo
7	Kisangula Secondary School	Improvised Electric Fan	Shakil Simani Mishel Tsindoli	Alex Muya Inganji
8	St. Alloys Buriya Mixed Secondary School	Making Charcoal Briquette	Loice Atieno Jacob Henry Otsieno	Phoebe V. Adhiambo
9	Moi Girls High School Kamusinga	Automated Fire Alert and Control System	Dorcus Nekesa Faith Barasa	Wanjala Edwin
10	Moi High School Mbiruri	Harvesting Electrical Energy from Trees	Hillary Muriithi Collins Munene	Geofrey Karanga
11	Nyamanga Mixed Secondary School	Properties of Radio Active Particles	Rooney Omondi Godo Joshua Rume Odier	Frank Obunde Odhiambo
12	Timau Secondary School	The Electrolytic Lantern	Vivian Anyika Neema Jemima	Kamotho Francis Gatutha
13	Senior Chief Adano Girls Secondary	Simplified Formula to Calculate Curved Surface Area of Conical Frustum	Roney Ibrahim Aden Nuria Omar Hassan	Abdullahi Kulei
14	Joyland Special Secondary School	Solar Panel Single Aix	Michael Odhiambo Andama Christine	Angela Kimeu

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#	School Name	Title of the Project	Students	Teacher
15	Nkoroi Mixed Day Secondary	Areometer	Queen Kaluaki Sharon Nyangweso	Daniel Ng'ang'a
16	P.C.E.A Karai Secondary School	Design of A Teaching Model on The Number of Images Formed by Intersecting Mirrors	Mercy Maina Nyokabi Peter Waweru Mbugua	Kirui Geoffrey Kipkemoi

17	Alliance Girls' High School	The GHG Harvester	Kiptui Michelle Kiptui Githuma Ann Wairimu	Agnes Gitahi
18	Moi Forces Academy – Lanet	Water Desalination and Purification Plant	Crystal Kariuki Muthoni Nana Buteni	Rahab Mwangi
19	Memon Academy High School	Copper Ions Removal from Waste Water Using Groundnut Shells	Junaid Aboo Mohamed Noor	Mr. Josphat Mwanyalo Nzikali
20	Chala Secondary School	Eco Friendly Carrier Bags	Janet Wakio Hildah Mghoi	John Ndinguri Kamau
21	St. Stephen's Sikusi Boys High School	Laser Home Security System	Collins Mwendwa Elisha Wekesa	Martin Wanjala Buyela
22	St. Teresa of Avila Girls' - Ndalat	Light Activated Relay	Ivy Jemeli Daisy Jemutai	David Kipyego Rono
23	Kaimosi Girls High School	Solar Panel from Compact Discs	Olunga Esther Ouma Joy	Kimakwa Godfrey
24	Masavi Girls High School	Bea Organic Fertilizers	Mercy Maundu Emily Mwendu	Mr Enos Barasa Emoit
25	Machakos Secondary School For The Deaf	Simple Electric Generator	Lewis Kirimi Catherine Mwendu	Dennis Ayoyi
26	St. Thomas Moore Nguviu Boys High School	ATMO Clean	Derrick Muthomi Stephen Ngugi	Sophy Njoki Mungai
27	Masavi Girls Secondary School	DORFA Solar Energy Recycling Structure	Dorcas Mutethya Faith Mwendu	Mr Enos Barasa Emoit
28	Orero Boys High School	Wireless Power Transfer	Benedict Otieno Oduor Jack Chris Wanga	Mr. Robinson Odhiambo Omolo
29	Kiungani Secondary School	Hybrid Car Anti Theft System	Titus Kelly Evans Makokha	Nyakungu Walter
30	Kisangula Secondary School	Power Generating Staircase	Britiny Nyagoha Donyi Henry	Alex Inganji
31	Nandarasi Secondary School	Volume and Surface Area of Solids	Winfred Wangare Mary Wangui Gathoni	Amenya Collins Sule
32	Mahindu Secondary	Simplified Formula for Getting The Volume of a Frustum	Samuel Muchemi Carolyne Kabugi	Samuel Maina Ndungu

31	Githunguchu Secondary School	The Combined Formula	Charles Wambug Evelyn Wangechi	Kennedy Nyota Kirugumi
32	Moi Forces Academy Mombasa	Low-Cost and Eco-Friendly Salt Water Battery	Suheil Arol Yvonne Anyang	Leonida Chepkorir Soi
33	Moi Forces Academy Mombasa	Green Energy from Aloe Vera	Mohammed Bishar Abdi Eliphias Ombati	Leonida Chepkorir Soi
34	Maseno School	Thermo -Electric Plus	Chris Xavier Kochupe James Isaac	Joshua Otieno Muholo
35	Githinji Secondary School	Cryptography	Ruth Wanjiru Stephen Kang'ethe	Ann W Mwangi
36	Mbita Boys High School	Aqua Electric	Martin Odhiambo Bramwel Odiwuor	Nicholus Ogola
37	Mbita Boys High School	Antimicrobial Tooth Paste from Plants	Wandela Kevin Kundu Amos	Phostine Juma
38	St. Joseph's School Rapogi	Organic Atrophy	Puma Ibrahim Jillo Basten Brimah	Boaz Auma
39	Olympic High School	Solar Powered Water Purification and Desalination	Kenedy Matete Josephat Mwema	Mr. Weslly Lubonga
40	Sengani Girls High School	Improvement of Soap Cleansing Properties Using Sodom Apple Juice, Pawpaw Juice and Olive Oil	Breana Wairimu Martha Mutio	Kenedy Wanjala Wafula
41	Kyumbi Mixed Secondary School	Matrix Application Versus Heron's Formula When Solving for The Area of Triangle Given Vertices Only	Daniel Gekonde Nyagesoa Neymar Ibrahim Ramadan	Dorcas Moraa Nyauma
42	Bungoma High School	Extraction Of Silver from Photographic Waste	Joshua Mwanzi Benard Odhiambo	Murunga Phillan
43	Moi High School - Mbiruri	A Review on Biomass Briquettes Fuel Towards Green Energy Recovery Post Covid 19	Gatanazi Fidelle Iradukunda Charles Itotia	Mr. Mbiiri Hudson
44	Tuwan Girls Secondary School	Desalination of Salt Water Using Solar Power	Valentine Isendi Adelite Nelima	Juliana Miheso
45	St. Angela Sengera Girls' High School	Electronic Skate Power Bank	Joan Ndemo Iddah Okoth	Dr.Dennis Osoro

46	Moi High School Mbiruri	Fabrication and Characterization of Briquette Charcoal Dust from A Carbonized Rice Husk (Oria Sativa)	John Maina Christian Alvin Muthomi	Mr Hudson Mbiiri
47	Loreto Convent Msongari	Smart Homes	Patience Kisyula Cess Kumbe	Mr Petro Aginga
48	Mbita High School	The Teeth Whitening Gel	Calvince Owuor Leonard Ogembo	Nicholus Ogola
49	Nyakiambi Girls Secondary School	Making A Fan to Regulate Temperature	Babra Atieno Risper Blessing	Jacob Kurgat Kipng'etich
50	Jalaram Academy	Used Engine Oil as Energy Resource	Sahil Nsubuga Emmanuel Mitch	Ms. Judith Orwa



Technology

Projects in this category use technology in new or improved applications, enhanced efficiencies, new innovations or better ways to do things.

Showcasing in Nairobi

#	School Name	Title of the Project	Students	Teacher
1	Mbita High School	The Solarized Telescope	Brayan Omondi Wayne Ndalo	Nicholus Ogola
2	St. Johns Girl's Secondary School	RFID Animal Tracker	Edna Charles Bintimusa Omar	Nicholas Odira
3	ACK Meshack Tumkou Boys Secondary School	Digital Movable Brooder	Timothy Kipruto Adrian Muchuma	Mrs. Margaret Wamalwa
4	Ribe Boys High School	IOT Gas Leakage Detection with Buzzer System	Ali Bashiri Ali Ali Ahmed Ali	Jumaa Mwalimu Charo
5	Nakuru High School	Smart Health Kit	Gideon Kipkirui Johnston Kiiru	Anthony Bwogo
6	Sengani Girls High School	Non-Invasive Glucokit For Diabetic Person (Diakit)	Faiza Wangari Magdalene Nthambi	Kenedy Wanjala Wafula
7	Nguviu Boys High School	Smart Farm	Lenny Kaunda Titus Gakunju	Francis Mugendi

8	St. Joseph's School Rapogi	Car Accident and Alcohol Detector	Jezreel Birsha Andrew Dickens	Boaz Auma Otieno
9	Jalaram Academy	Anti- Exam Cheating Security Box	Bansri Patel Tiffany Boyani	Mrs. Judith Orwa
10	Chala Secondary School	Smart Blind Stick	Omar Mshanga Merzelina Wawuda	John Ndinguri Kamau
11	St. Stephen Sikusi Boys	Simple Incubator	Larry Simiyu Thaddeus Kituyi	Martin Wanjala Buyela
12	Moi Kipsitet Girls' Secondary School	Home-Made Food Calorimeter	Fridah Jebiwott Stephanie Mwikali	Too Cheruiyot Josphat
13	Musingu High School	Cowsense Dairy Monitoring Device	Bravin Watsenga Isaac Abuti	Mr. Mwanja Wafula Elias
14	Canon Kituri Secondary School	Obstacle Avoidance Headgear	Caxtone Tole Kirigha Timothy Bwire Musumba	Mr. Kiprof Kelvin

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#	School Name	Title of the Project	Students	Teacher
15	Alliance Girls High School	How Human Movement Can Be Used to Generate Energy	Abbi Amani Audi Peace Kamau Wairimu	Agnes Gitahi Phineas Mugambi
16	Alliance Girls High School	The Metrieca	Melody Wendo Mwenda Trizah Njeri Mureithi	Ms. Gitahi & Mr. Mugambi
17	Alliance Girls High School	The MC Light	Michelle Biwott Melissa Claire	Mr Mugambi
18	Nairobi School	Clean and Reliable Electricity Generation Using Dc Motor and Alternator	Manzi James Braxton Olawo	Samuel Waitthaka
19	Shree Swaminarayan Academy	Enhancing Crop Yield and Water Efficiency Through IOT-Based Solutions In Drought-Prone Regions of Kenya	Ndzai Robert Sumner Sahil Pattni	Nicodemus Obino
20	Alliance Girls High School	The Ultimate Torch	Ann Mwathi Kalutu Asher Wanjiku Maina	Agnes Gitahi & Phineas Mugambi

21	Rapogi Secondary School	Motor-Driven Boat	Dennis Onyango Dreen Akinyi	Kevin Onyango
22	Chala Secondary School	Electric Farm Tractor	Janet Mwangombe Diana Mbisha	John Ndinguri Kamau
23	Nakuru High School	Smart Road Sign	John Mwangi Maina Leon Macknight	Antony Bwogo
24	Chala Secondary School	Electric Farm Tractor	Janet Mwangombe Diana Mbisha	John Ndinguri Kamau
25	Chala Secondary School	Use of Smart Cars to Avoid Road Accidents	Gedion Magak Kelvin Joseph	John Ndinguri Kamau
26	St. Michaels Secondary School	Solar Car	Daniel John Fidel Omondi	Mr. Tanui Edwin
27	Memon Academy High	Simple Manual Water Pump	Ali Bates Zakir Feroz	Mr. Josphat Nzikali
28	Memon Academy High	Smart RFID Election System	Nasma Said Iman Alwi	Mr. Denis Mutugi
29	Rapogi Mixed Secondary School	Balloon Powered Car	George William Otieno Irene Adhiambo Ochieng	Mr. Bonface Ombura
30	Mwambonu Secondary School	Plastic Paving Blocks	Michell Siteiyian Koiyiet Fadhili Maghanga Mwazumbi	Rofina Kiwo
31	Ngala Memorial Girls Secondary School	Localized Hydro-Rider	Lizzy Maua Mariam Sidi	Wesonga Livingstone Rodgers
32	Bahari Girls Secondary School	Automatic Road Accident Alerting Device	Odedo Doreen Bhakita Sumeya Mariam Abdi	Dianga Al-Imran
33	Kerongeta Secondary School	Solar Powered Car	Robert Maina Japheth Nyakundi	Ruth Onkoba
34	Moi Forces Academy - Lanet	I-Care	Semeiyana Le-Loina Lucy Sogomo	Mrs. Rahab
35	Moi Forces Academy - Lanet	Smart Farming System	Juddy Chelangat Nimula Said Mwasaria	Mrs Rahab Wangecii

36	Nyando Mixed Secondary School	Accident Avoiding System	Jovia Akinyi Gerald Odongo	Nicholas Opundo Auma
37	St. Teresa of Avila Girls'- Ndalat	Making Cheap Shoe Polish	Sandra Jelagat Ezzy Jepchirchir	Phyllis Korir
38	Kyamuoso Central Secondary School	Design & Fabrication of A Simple Home Security System	Ann Mutua Muuo Paul	Dennis Mwanja Kavita
39	Mwambonu Secondary School	Smokeless Sunray Heater	Kelias Machangara Faith Kulola	George Mghanga Katini
40	Likoni Secondary School	PEA	Ali Hamisi Mwakamare Khalid Shee Omari	Mr. Dickson Mupe Dzombo
41	Juja Preparatory & Senior Schools	To Develop A GPS Tracking System For Curbing Cattle Rustling	Ethan Karuga Faith Wanjiku	David Wekondi Munyikombo
42	Ribe Boys High School	Sun Tracking Solar Panel	Katana Kitsao Kahindi Muhammed Guyo Abarufa	Jumaa Mwalimu Charo
43	St. Marks Kiserian Mixed Day Secondary School	Concealed Distress Tracking System	Gitonga Travis Mwende	Mark Chikombe Wanyama
44	Kanga High School	Artificial Vision System	Bill Sebastian Gregory Isaac	Kevin Okong'o
45	St. Barnabas Girls' Secondary School	Online Assessment App for Junior Secondary School (JSS) Students	Zilpher Alamba Jesca Albright	Ogollah Ojowi J.
46	Kisumu Senior Academy	Sleep Detector for Road Safety	Umar Sokwala Vanshi Patel	Calvine Oruko
47	Alliance Girls High School	Right Shared	Joan Wanjiru Mungai Adede Shirley Mercy Atieno	Agnes Gitahi
48	Kanga High School	Cancer Deep focus System	Samson Baraka Shadrack Mwema	Marshall Onyango
49	Moi Girls' High School Eldoret	The Ripe and Unripe Circuit	Fatuma Bakari Fiona Rose	Michael Ndalut

50	St. Paul's Gekano Boys High School	Simple Writing Machine	Clinton Ocharo Jacob Onyega	Erwin Mogusu
51	Njonjo Girls' High School	A Simple Automatic Water Level Detector	Joy Ruth Patience Daisy	Kiama Apollo Gitahi
52	Nakuru High School	Smart Road Sign	John Mwangi Maina Leon Macknight	Anthony Bwogo
53	Moi High School Mbiruri	Remote Farming Automation Using Arduino And Robotics Kit	Adrian Ndung'u Nathaniel Munen	Geofrey Karanga
54	St. Angela Sengera Girls' High School	Motorbike Alcosensor	Phaustine Kwamboka Scarlet Adhiambo	Dr. Dennis Osoro
55	The Kenya High School	Soil Moisture and PH Sensor	Macey Mungai Daisy Rotich	Mrs. Karanja. P. Njoki
56	St. Joseph's School Rapogi	Touchless Switch	Israel Marshall Omingo Navis Ayara Ochieng	Boaz Auma
57	Matuga Girls High School	Smart Bin	Hadia Samia Zainab Amir	Rajab Tsuma
58	St. Thomas Amagoro Girls Secondary School	Staggs Vex IQ Robot	Joylight Neema Olivia Ann Olaro	Patrick Emukule
59	Tuwan Girls Secondary School	Automatic Spring Chicken Feeder	Janet Chepchumba Linet Kavita	Juliana Miheso
60	Mwambonu Secondary School	Chicken Waste Fuel Briquettes	Agnes Mwawughanga Shighadi	Duncan Mwimwa George Mghanga Katini
61	St. Mary's Kamba Secondary School	Bed Wetting Alarm Control	Wesonga Esther Juma Martin	Ezekiel Murani Wafula
62	Ruiru Boys High School	The Lectrica Smart City Project	Lenny Waruingi Muriithi	Timothy Nderitu
63	Olympic High School	Smart Irrigation System	Braxton Lumbasi Tony Otieno	Mr. Weslly Lubonga
64	St. George Special Secondary School	Production of Electricity from Electrolysis of Water	Viola Nekesa Ojuo Joyline Ogono	Jivon Oging'

About Our Partners



Ambasáid na hÉireann
Embassy of Ireland

IRISH EMBASSY

The Embassy of Ireland in Kenya works to promote the key pillars of Ireland's Foreign Policy - serving people, enhancing prosperity, promoting the values of the Irish people and our place in Europe. The Embassy works to enhance the political and economic relationship between Ireland and Kenya that will deliver economic growth and jobs; maintain and strengthen links with our Irish diaspora; and promote Ireland and Irish culture, building on the contribution of Irish missionaries and Non-Governmental Organisations to Kenyan society over many years.



MINISTRY OF
EDUCATION

MINISTRY OF EDUCATION

The Ministry of Education (MOE) formulates and implements education and training policies, standards, curricula, examinations, and the granting of university charters. It is also responsible for the management of universities, tertiary educational institutions, and other institutions of research and higher learning and primary schools, special education, secondary schools, and special education institutions.

The mission of the Ministry of Education is to provide, promote, and coordinate quality education, training, and research; and to enhance the integration of Science, Technology, and Innovation into national production systems for sustainable development.

Under the Ministry of Education, is the Kenya Science and Engineering Fair which offers school students across the republic, a chance to become motivated by science and to discover scientific research as it encourages innovative thinking, for practical solutions in everyday life.

IOP
Institute of Physics

INSTITUTE OF PHYSICS

The Institute of Physics is a leading scientific membership society working to advance physics for the benefit of all. We have a worldwide membership and our purpose is to gather, inspire, guide, represent and celebrate all who have a passion for physics. As physics is an international endeavour, we work to foster international collaborations, both to expand the boundaries of knowledge and to solve global challenges. As an organisation we look to provide opportunities for people in low-to-middle income countries that may benefit from engaging in the discipline of physics. We are proud to support the inaugural Young Scientist Kenya competition and hope that the IOP special prize in physics will encourage students to continue to engage with physics throughout their education and future career paths.

Safaricom

SAFARICOM HOOK

Safaricom Hook, a new platform that seeks to empower the youth by leveraging the power of technology. Focuses on three key hooks; technology, career, and culture, the platform aims to nurture and support the aspirations of the Gen Z demographic and transform their lives by being a technology enabler, through offering access to custom-made offerings that will leverage Safaricom's extensive mobile network. Safaricom is keen on helping the young people to leverage the transformative power of technology. Safaricom Hook aims to provide a platform for young Kenyans seeking inspiration, opportunities, and a sense of belonging in a constantly evolving world. As the name suggests, Safaricom wants to create a lasting connection with a generation that has unique needs.

Safaricom Hook seeks to enable Gen Z to maximize their online potential and enjoy a digital lifestyle by facilitating smartphone access, providing relevant value propositions such as Make Your Own Bundle, which gives users the freedom to decide how much they spend on data and voice, and availing loyalty rewards through delight offers.

In the Tech hook, Safaricom will empower the youth with digital skills for a tech future through touchpoints such as Safaricom's Digital Talent Programme, and the Safaricom Engineering Community, and partnerships with several organizations, including as Power Learn, who empower African youth through software development.

The Career hook, aims to prepare the youth for conventional and unconventional careers, will come to life by working with an array of partners including Meta-Wilde international and Wowzi, who will provide digital training to enable the youth to access the gig economy, and Brighter Monday, who will provide guidance for those in conventional careers. In the Culture hook, Safaricom seeks to enable GenZ to access passion points such as sports, via Safaricom Chapa Dimba and the upcoming Safaricom Athletics series; content creation, through Baze, which enables creators to monetize their music and video content; and Fashion, through partnerships with Artfit and ShopZetu, who will mentor upcoming designers, among others. To promote a savings culture and support Gen Z in managing their finances, Safaricom Hook will leverage M-PESA Go, and the Mali wealth management platform.

LIQUID INTELLIGENT TECHNOLOGIES

LIQUID INTELLIGENT TECHNOLOGIES

Liquid Intelligent Technologies is a business of Cassava Technologies, a pan-African technology group present in more than 20 countries, mainly in sub-Saharan Africa. Liquid has firmly established itself as the leading provider of pan-African digital infrastructure with an extensive fibre broadband network covering over 110,000 km. Liquid Intelligent Technologies is also leveraging its digital network to provide Cloud and Cyber Security solutions through strategic partnerships with leading global players. As a comprehensive technology solutions group, Liquid Intelligent Technologies provides customised digital solutions to public and private sector enterprises and SMEs across the continent. Through this combined offering, Liquid Intelligent Technologies is enhancing customers' experience on their digital journey. Liquid Intelligent Technologies takes great pride in our partnership with Young Scientists Kenya (YSK) because they share a common mission with us – the transformation of the African continent by empowering its people, businesses, and communities, and YSK's impactful efforts to inspire and empower the next generation of young scientists, innovators, and entrepreneurs are instrumental in driving positive change and transformation within their communities.



CEMASTEA

Centre for Mathematics, Science and Technology Education in Africa (**CEMASTEA**) is a public education institution established in the year 2003 to provide and coordinate In-Service Education and Training (INSET) for practicing teachers of Mathematics and Science in Kenya. The centre has grown in physical facilities as well as quality of training programmes to provide all round Teacher, Capacity, Development of Teachers (TCDT) in Kenya and other African countries. CEMASTEIA is governed by a Board of Management (BoM). The Chief Executive Officer (CEO) is the Director and secretary to the Board.



At the Core of every Construction

TONONOKA GROUP

The Tononoka Group of Companies is a privately owned group whose business activities began in 1980 with the formation of Tononoka Hardware Limited that became a major supplier of steel products in the Kenyan market. The Tononoka Group has earned an enviable and reputable position in terms of quality, cost-effectiveness and customer service over a period of time.

The initial growth of the trading business opened an opportunity for commencement of a small manufacturing facility and the idea blossomed into the formation of Tononoka Steels Limited in March 1991. Tononoka Steels Limited is now a major producer and supplier of Black and Galvanized Pipes, Hollow Sections (Round, Square and Rectangular), Channels, Beams, Profiles, M.S. Sheets, Z-Purlins, Flats and Angles. The Plant and Corporate Offices are based at North Airport Road in Embakasi and employ around 200 personnel.

The aspiration to expand in concurrence with the market and environmental needs led to the formation of Tononoka Rolling Mills Limited in the year 2005. Tononoka Rolling Mills Limited plays a very important role in the environment by converting waste metal scrap into valuable reusable construction materials such as Reinforcement Steel (Round, twisted and square bars), Mild Steel Flat Bars and Angle Irons. Tononoka Rolling Mills Limited is situated on Komarock Road in Dandora Phase 5 and has around 150 employees who are well trained to maintain its supremacy.

The Group's operations are well managed by professionals in all areas especially Planning & Finance, Marketing, Manufacturing and Human Resources. The Group's vision is to achieve major market share, increase employment in the country and maintain high quality standards whilst ensuring maximum customer satisfaction at all times.



KEVIAN KENYA

Since its inception in July 1992, Kevian Kenya Ltd has stridden a path of distinction not only with a range of food and beverage products that remain a notable mark of excellence, but also with a distinctive knack for producing high quality brands that are unique and refreshing. These brands are: pick n peel, Afia, mt Kenyan drinking water, Kevian sauces and Kevian soups. Presently, the company which is wholly owned and run by Kenyans, is regarded by peers in the industry as a trailblazer; and by consumers as a trusted source for unique nourishment. A good number of our fruits and vegetables are sourced locally, which is in line with the company's overall objective of empowering Kenyan farmers. Kevian brands are enjoyed in the wider East African region and beyond.



SKANEM INTERLABELS

Skanem Interlabels Nairobi Ltd is a labelling company that provides high quality labelling solutions, printing labels that you, your customers and the environment will love. With printing sites across two continents, and over 100 years of experience, Skanem is an industry leader in the labelling industry in East Africa.

We offer smart, customized and cost-effective labelling solutions including self-adhesive labels, shrink sleeves, in-mould labels, promo labels, smart labels, and peel & read labels, among others, for a wide range of market segments ranging from food, beverage, personal care, pharmaceutical, home care, industrial to automotive.

Skanem boasts a dedicated team of experienced top-notch professionals from various functions of the labelling industry ensuring that we deliver the best to our customers.

We take great pride in minimizing our carbon footprint by implementing sustainable practices and supporting our customers in reaching their sustainability and profitability targets.



WORLD-CLASS STANDARDS
WARMEST OF WELCOMES

EDUCATION IN IRELAND

Education in Ireland is an Irish Government agency, working with all Irish Universities to promote Ireland as an education destination and working with the Irish Embassy in Kenya to promote student-centric learnings and development. Education in Ireland is proud to partner with Young Scientist Kenya in helping Kenyan school children develop their STEM skills and create meaningful applications and solutions to the challenges of life in Kenya. Irish Universities have a long association with the Young Scientist program, and we look forward to continuing our association with the event in the years to come.



KERRY GROUP KENYA

Kerry Group plc is an Ireland-based provider of taste and nutrition solutions for the food, beverage and pharmaceutical markets and an Irish provider of value-added dairy ingredients and consumer products. The Company has an international presence with approximately 147 manufacturing facilities across the world. The Company operates through two segments: Taste & Nutrition, and Dairy Ireland. The Taste & Nutrition segment is a provider of taste and nutrition solutions for the food, beverage and pharmaceutical markets. The segment supplies industries across Europe, Americas, and Asia Pacific, Middle East and Africa (APMEA). The Dairy Ireland segment is an Irish provider of value-added dairy ingredients and consumer products. Its dairy ingredients product portfolio includes functional proteins and nutritional bases, while its dairy consumer brands can be found in chilled cabinets in retailers across Ireland and the United Kingdom.

CONCERN worldwide

CONCERN WORLDWIDE

Concern Worldwide (Concern) is an international humanitarian organization that strives for a world free from poverty, fear, and oppression. We deliver life-saving and life-changing interventions to the world's poorest and most vulnerable people. From rapid emergency response to innovative development programming, we go to the hardest to reach places to make sure that no-one is left behind. Concern has worked for more than 50 years with the world's most vulnerable people to help reduce suffering and combat poverty and hunger and we have been operational in Kenya since 2002. To achieve our goal of ending extreme poverty through enhanced community resilience, Concern has programs both in the Arid and Semi-Arid Lands (ASAL) Counties of Marsabit, Turkana, Tana River, and Isiolo, and the urban informal settlements of Nairobi. Concern has been a longstanding supporter of YSK and has a number of programmes in STEM, including in STEM Outreach and Mentorship programming in schools in the ASAL counties.



THE PREMCHANDBHAI FOUNDATION

The Premchandbhai Foundation is a family-run charitable organization established in Kenya in 1958 by the families of Kachrabhai, Premchandbhai & Juthalalbhai Vrajpal Shah. The Foundation's main objectives are to endow services in providing education, medical services, alleviation of poverty and general community welfare. For over six decades, Premchandbhai Foundation has invested in education by providing University scholarships to gifted but needy learners from vulnerable households to access STEM courses like Engineering and Medical disciplines in local Universities, colleges and other institutions of higher learning. The Foundation also supports inclusive education by providing assistive devices known as orbit readers to empower learners with visual impairment to access quality education and reach their true potential in Kenyan schools. Some of the other key projects that Premchandbhai Foundation has supported include the improvement and construction of schools, funding the construction of hospital units in Mombasa, Kijabe, and the KPJ Tower and Wing at M.P. Shah and Jalaram hospitals, respectively, in Nairobi.

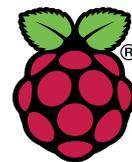
The Foundation additionally contributed to establishing the Mabati Technical Training Institute and Mabati Medical Centre in Kilifi County. The Trustees of Premchandbhai Foundation are delighted to partner with Young Scientists Kenya to give vulnerable youths the blessing of university scholarships. We appreciate and recognize the excellent work that YSK is doing to promote the innovation and creativity of young learners in Kenya.



Strathmore UNIVERSITY

STRATHMORE UNIVERSITY

Strathmore University is a leading outcome-driven entrepreneurial university whose vision is to transform and serve society through excellence in teaching, scholarship and research. Driven by our commitment and reputation for excellence, we promise our students a rigorous, all-round education in an atmosphere of freedom and responsibility. Our market-oriented courses, industry linkages and opportunities outside the classroom promote positive career outcomes for our students in their chosen fields. Our comprehensive course content is value for money. Through individual attention and promotion of high personal and professional ethical standards, we guide students' personal development and help to mould independent, successful and upright professionals to serve society. Strathmore University is proud to partner with the Young Scientist Kenya with the aim of supporting the youth and nurturing innovation that impacts the society positively. This partnership is carried out in collaboration with the School of Computing and Engineering Sciences.



Raspberry Pi

RASPBERRY PI FOUNDATION

The Raspberry Pi Foundation is on a mission to put the power of computing digital making into the hands of people all over the world. Our ultimate goal is for more people to have better lives and a positive impact on society because they have learned how to make things with technology. We are proud to partner with Young Scientist's Kenya (YSK) to give young people the digital skills to shape the world and build the knowledge, skills and confidence of educators to teach computing and digital making.



GOOGLE

Google is a multinational technology company that specializes in Internet-related services and products, which include online advertising technologies, a search engine, cloud computing, software, and hardware. Google has a significant presence in Kenya, with offices in Nairobi and a product development center that is the first of its kind in Africa. Google first launched its operations in Kenya in 2007, and since then, it has played a major role in the country's digital transformation. Google's products and services are used by millions of Kenyans every day, and the company has invested heavily in initiatives to support local businesses and entrepreneurs. One of the most significant aspects of Google's presence in Kenya is its product development center. The Product Development Center is responsible for developing new products and services for users in Africa and worldwide. Google is committed to helping Kenya build a digital economy that benefits everyone. The company's presence in Kenya is a significant asset to the country, helping to drive innovation and economic growth.

V.W. MAINA & CO. ADVOCATES

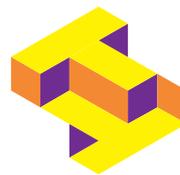
V.W. Maina & Co. Advocates is a leading law firm in Kenya with a team of experienced and dedicated lawyers committed to providing their clients with the highest quality legal services. The firm has a broad range of expertise, covering all areas of law, including but not limited to commercial law, conveyancing, civil litigation, Criminal law, succession matters, and family law. V.W. Maina & Co. Advocates is committed to providing its clients with personalized and attentive service. The firm's advocates take the time to understand their client's needs and objectives, and they work closely with them to develop and implement legal solutions that meet their specific requirements. V.W. Maina & Co. Advocates is proud to partner with YSK during the national exhibition because we share a joint commitment to excellence and to serving the community at large. The exhibition is an excellent opportunity to showcase the best of Kenya, and we are excited to be a part of it.



MTOTO NEWS

Mtoto News is a digital and media platform dedicated to making children visible and amplifying their voices. Mtoto News curates, creates, and circulates content on children and by children in various forms, including audio, video, written materials, and infographics. Mtoto News strongly believes in child participation as its core DNA, advocating for children to be seen as active participants rather than passive spectators. The platform empowers children to inform policy, programs, and practices through their voices and child-led research. Mtoto News's mission is to:

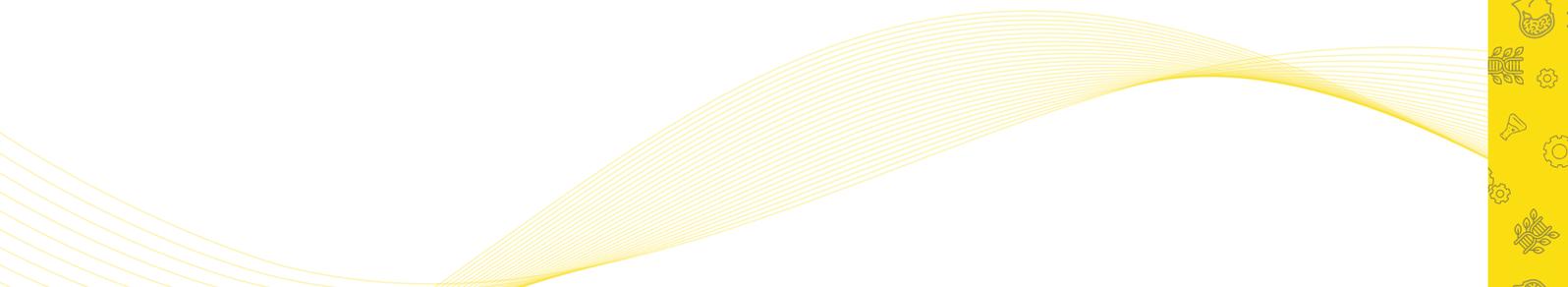
- Make children visible: The platform highlights the stories, experiences, and perspectives of children, bringing their voices to the forefront.
- Empower children to participate: Mtoto News creates opportunities for children to engage in meaningful participation, ensuring their voices are heard and considered.
- Use research to inform policy and practice: The platform conducts and supports child-led research to generate evidence that informs policies and practices affecting children. Mtoto News is committed to creating a child-centered media landscape where children are not just subjects of stories but also storytellers themselves. The platform strives to promote child rights, advocate for their well-being, and contribute to positive change in their lives.



**The Tech
Interactive**

THE TECH INTERACTIVE

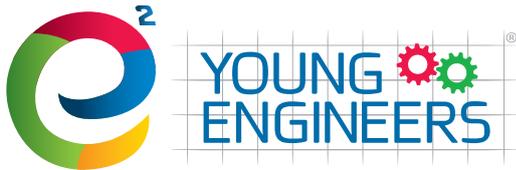
The Tech Interactive is a world class science and technology center located in the heart of Silicon Valley. It is a mission driven organization that develops the next generation of problem solvers, nationally and globally through the creation and distribution of STEM (science, technology, engineering and math) education resources, exhibits and programs. The Tech believes that everyone is born an innovator who can change the world for the better, and every student deserves access to high quality hands-on learning experiences to discover their creative potential.



TRACE

TRACE FM

Trace FM is your First with the Hits station that plays you great music across the day. Our core target is 18-35 year old urban youth. We broadcast in the following towns: Nairobi, Mombasa, Nakuru, Eldoret



Build Your Tomorrow. **Today!**

YOUNG ENGINEERS

Young Engineers is an organization that provide STEM (Science, Technology, Engineering and Mathematics) based activities to students from 4 years. We make learning the four concepts and life skills a matter of excitement and personal expression using specially designed programs for children, teenagers and adults, and wonderful activities and workshops. The results are spectacular with children participating in young engineers' activities showing better scholastic results and a better understanding and practical application of basic science knowledge.



KENYA INDUSTRIAL PROPERTY INSTITUTE

Kenya Industrial Property Institute (KIPI) is a government parastatal under the Ministry of Industry, Trade and Cooperatives. The Institute was established on 2nd May 2002 upon the coming into force of the Industrial Property Act 2001. Previously the Institute existed as Kenya Industrial Property Office (KIPO), which was established in February 1990 after enactment of the Industrial Property Act, CAP 509 of the Laws of Kenya.
VISION: A world class institution in administration of industrial property rights
MISSION: To protect and promote industrial property rights and foster innovation for sustainable development in Kenya.



KENYA NATIONAL INNOVATION AGENCY

The Kenya National Innovation Agency (KeNIA) is a State Corporation established under the Science, Technology, and Innovation (STI) Act, No. 28 of 2013 under the Ministry of Education. The core mandate of the Agency is to develop and manage the National Innovation System. The Agency is therefore responsible for the coordination, promotion, and regulation of the National Innovation System.

Working with partners, KeNIA strengthens interrelationships between actors in order to promote innovation and enterprise development out of research and ideas. From supporting the identification, recording, and protection of innovative ideas to coordinating the establishment and implementation of appropriate policies, standards, processes, infrastructure, and partnerships to nurture innovative ideas. The agency also works with partners to ensure appropriate prioritisation, relevant capacity development, innovation recognition, and publication of the same.



**TECH KIDZ
AFRICA**
Empowering future innovation

TECH KIDZ AFRICA

Tech Kidz Africa is a technology Academy that aims to cultivate and nurture the spirit of the Silicon Valley to children in Africa. This is done by customizing software programs and hardware robotic kits for coaching children in Technology. The program also emphasizes character development of children through coaching in Life skills. Tech Kidz Africa empowers the kids to design their own future by designing, coding and configuring robots, developing software, graphic design and creative design thinking.

Thank You Message from Acting National Director, YSK

This year, the Young Scientists Kenya (YSK) National Science and Technology Exhibition brings 418 students (230 girls and 188 boys) together to showcase 209 projects in four award areas. We have tracked the whole journey for the year MAKING STEM ACCESSIBLE TO ALL and LEAVING NO LEARNER BEHIND and this exhibition is the culmination of our STEM outreach and mentorship activities reaching 350+ schools and 6,000+ students across 47 counties. We are grateful to each one of our stakeholders for your support and guidance, because through you this exhibition became possible. On behalf of the Young Scientists Kenya Secretariat, I would like to extend our gratitude to all.



The Young Scientists Kenya Board led by Sachin Gudka, the outgoing chairman, and Ben Roberts the acting board chair has provided tremendous support towards our programs including the exhibition. Special appreciation to our Platinum Sponsor, the Government of Ireland, through the Irish Embassy in Kenya for their strategic partnership, leadership, and continued financial support. We also extend our gratitude to the Government of Kenya, through the Ministry of Education as co-founders of Young Scientists Kenya, and for allowing us to visit secondary schools across the country for our STEM outreach and mentorship activities. Our gratitude to the collective support from all our sponsors including the Embassy of Ireland, Institute of Physics, Liquid Intelligent Technologies, the Centre for Mathematics, Science and Technology Education in Africa (CEMASTE), Tononoka Group, Safaricom PLC through Safaricom Hook, Kevian Kenya, Education in Ireland, Kerry Group, and Concern Worldwide goes beyond words for their belief in YSK's work.

We would not have had successful STEM outreach and mentorship activities including coding skills in schools without the financial support from our partners Raspberry Pi Foundation, and Google. Our special gratitude to our sponsors Strathmore University and Premchandbhai Foundation who are providing university scholarships to the overall winners of the exhibition and bright but needy students from marginalized communities respectively in addition to equipping Computer and Science laboratories in 30 schools across Kenya. We also thank Mtoto News and Trace TV for their willingness to work with us in telling stories during the exhibition. To the Kenya National Innovation Agency (KeNIA), our partners in their flagship Kenya Innovation Week – Commonwealth Edition, thank you, and YSK looks forward to a continued partnership. The engines behind our work are the Students, Teachers, Principals and Mentors who have worked extremely hard in managing their busy and varied school schedules to make the STEM mentoring outreach a success. Recognition should also be given to all the STEM mentors who passionately dedicated their time to ensure we had successful outreach activities and worked closely with teachers and students during project development. The County Directors of Education provided leadership and direction and ensured YSK's activities went on without a glitch. Special appreciation also goes to the Judges who took time out of their busy schedules to review project abstracts and score final student projects.

The Embassy of Ireland has nurtured and supported YSK on all fronts through the leadership of Ambassador H.E. Caitriona Ingoldsby and Deputy Head of Mission and Head of Cooperation Jill Clements. Special regards to the very dedicated Embassy staff for their tremendous support. Reserving the best for last, the YSK Secretariat. Vanessa Inziani, Meshack Mbuyi, Bakari Batuli, and Maxwell Okumu, my sincere gratitude to you all for your dedication and commitment and hard work that makes things seem seamless. To our Secretariat interns and volunteers; Trevour Maloba and Joy Liza Maina Nyambura thank you for your time, energy, and effort in supporting the Secretariat! YSK is destined to have an incredibly impactful effect on the future of young scientists across the nation. We will sustain, and enhance partnerships and relations with partners in the STEM Eco-system to continue providing opportunities to the most marginalized students the chance for equal participation in STEM. We are looking forward to sparking the interest of young Kenyans in STEM subjects and careers, building their confidence and ability to solve complex problems, and, overall, providing an enabling environment for learning and innovation and we welcome all our supporters, schools, students, teachers, parents, the government, institutional and private sector partners to work with us.

Let us MAKE STEM ACCESSIBLE TO ALL and LEAVE NO LEARNER BEHIND

Thank You

Carina Too

Ag. National Director

Head of Finance and Operations

Young Scientists Kenya

**USING STEM
TO REDEFINE
OUR FUTURE**

www.ysk.co.ke

Safaricom

Our Partners



Ambasáid na hÉireann
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REPUBLIC OF KENYA

MINISTRY OF
EDUCATION



At the Core of every Construction



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Raspberry Pi



The Tech
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Kenya Industrial Property Institute.



TECH KIDZ
AFRICA
Empowering future innovation

YSK Governance

Board Members



BEN ROBERTS

YSK BOARD CHAIR
GROUP CHIEF TECHNOLOGY AND
INNOVATION OFFICER
LIQUID INTELLIGENT TECHNOLOGIES



SHEILA CADOGAN

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THE IP & ACTUALISATION
COMMITTEE
PARTNER, CADOGAN & MUGO
LLP T/A ADROIT LAW



ANTHONY MWITHIGA

CHAIR OF AUDIT FINANCE AND
RISK MANAGEMENT COMMITTEE
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HASSAN DUALE

DIRECTOR, FIELD SERVICES
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ACTIVITIES,
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MAGDALENE WANYAGA

PROJECT MANAGER, SANDROSE LIMITED
NATIONAL POINT OF CONTACT FOR THE SPACE
GENERATION ADVISORY COUNCIL (SGAC) IN
KENYA.

YSK Secretariat



CARINA TOO

AG, NATIONAL DIRECTOR
HEAD OF FINANCE AND OPERATIONS
YOUNG SCIENTISTS KENYA



MESHACK MBUYI

HEAD OF PARTNERSHIPS



VANESSA L INZIANI

HEAD OF PROGRAMS



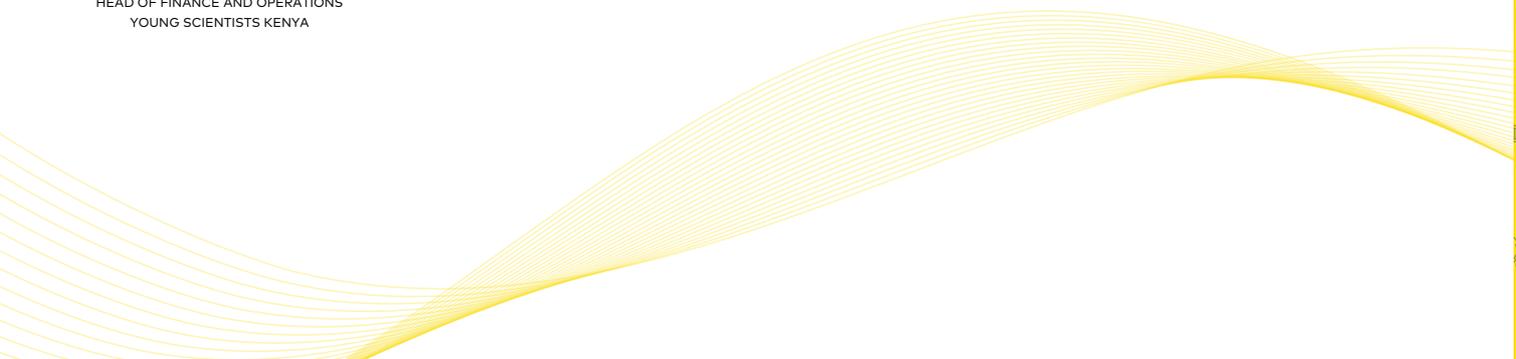
BATULI ALI BAKARI

PROGRAMS OFFICER



MAXIWEL OKUMU

PROGRAMS ASSISTANT



LABEL YOUR Products With Us

*High quality labels
sell products*

WE OFFER

Smarter Labelling Solutions

Efficient Supply Chain

Innovative Concepts

Quality Assurance

Satisfactory Service



▶ CONTACT US