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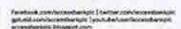








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FOREWARD

It's hard to believe it has been a year since the hugely successful STEAM Festival of 2023! Well, there has been a few changes since then-Firstly, we have evolved from STEAM Fun Fest to STEM Africa Fest, to better reflect our vision of a Pan African Learning Festival. In 2023, we partnered with STEM educators across Africa and held events in Ghana, Zambia and Rwanda which saw us reach over 12,000 attendees across Africa. Secondly, we are hosting the inaugural Abuja Festival-Abuja you called and we listened!!! We also have our sights set on even more countries, with events being planned in Gambia, Sierra Leone and Kenya for 2024. Thirdly, we are incorporating STEM Education Training for our teachers in the attempt to build capacity and enhance their skills thereby contributing to a better teaching and learning experience in our classrooms. We cannot emphasise enough the importance of quality STEM teachers in this technology-driven age and the impact on our children's development and human capacity building- the quality of education cannot exceed the quality of its teachers!

Which brings me to the theme of this year's event," Clean Tech and STEAM". Climate change and global warming is an existential threat and developing countries, though the lowest emitters of greenhouse gases, are suffering disproportionately from its effects with devastating consequences leading to famine, displacement, loss of livelihoods and even more poverty. Our response to this climate injustice is Education- by making the children on our continent aware of the issues and potential solutions within our communities and continent, these future leaders will be empowered to develop solutions to the challenges. Our speakers were carefully selected to bring their expertise in the areas of sustainability, renewable energy, recycling and agriculture. Of course, we would be remise not to touch on the impact of AI in our modern day and its impact across various sectors like education, health and the present and future workplace.

We express our sincere gratitude to our sponsors, who despite the challenging economic climes have supported us this year: Access Bank, Argentil Capital Partners, Lotus Bank, Flour Mills, ARM, Gradely, NCC, Oando, IHS, and MTN. We are grateful to our grateful to various partners, family and friends who have supported us financially and otherwise and of course, a special shout out to our phenomenal STEM Africa Fest Planning Committee, who worked tirelessly to ensure this year's event was a success.

Titi and I look forward to welcoming you to the 2024 STEM Africa Fest!

Jadesola Adedeji Co-Founder, STEM METS



PRACTICAL INFORMATION

Welcome to the STEM Africa Fest! Follow us on Instagram @stemafrica_fest for updates and exciting content throughout the event:

1. REGISTRATION AREA:

Visit the registration and information desk at the event venue entrance. Remember to bring your ticket with the QR code for access. Your ticket can be printed, or you can simply have an e-copy on your phone. After registration, you will receive a tag for easy entry. Registration starts at 8 am.

2. MASTERCLASS AREA:

Join us for insightful panel discussions in the Master Class area. Industry experts from Edtech, Fintech, Cleantech, and more will share their expertise on empowering children for the future.

3. STEAM LABS:

Let children explore hands-on STEAM activities in the eight available STEAM Labs. From Animation to Coding, Engineering to Science Experiments, to Al Tools, there's something for everyone. Please note that labs are strictly for children only, and each lab has limited space.

4. STEAM PITCH COMPETITION:

Don't miss the exciting STEAM Competition Pitch, where the five finalists will present their innovative ideas to a panel of judges. The pitch will take place at the Lagos event, at the Master Class Zone by 4:00 p.m., and the winners will be announced at 5 p.m. Also winners of the Quiz Competition will be announced at the Masterclass

5. TECH CAREER CORNER:

Get your tech-related questions answered by professionals from companies like Flutterwave, Oracle, Google, Amazon, and more. The Tech Career Corner is open during the morning session (10 am - 1 pm) and the afternoon session (2 pm - 5 pm).

6. ESPORTS ZONE:

Children can participate in exciting competitive gaming tournaments, showcasing their skills and competing for prizes at the E-Sports Zone.



7. QUIZ COMPETITION:

Head over to the Quiz Corner for the STEM Africa Fest Quiz. Test your knowledge of renewable energy and recycling and win exciting cash prizes, including other consolation prizes. Bring your own device or use the available ones to participate. Scan the QR code at the quiz corner, sign up to play for free or visit https://bit.ly/STEMAfricaQuiz to participate. The overall winner goes home with \$200,000

8. PARENTS CORNER:

Beyond learning and having fun activities for children, with the new age of innovation, technology, and AI, parents are not left out. This corner is curated as an avenue to network, learn, get equipped, and be educated.

9. BREAKS:

We have designated break times to allow movement between events. For Masterclasses and STEAM Labs, breaks are scheduled as follows:

- 11:00 am to 11:30 am
- 12:30 pm to 1:00 pm
- 2:00 pm to 2:30 pm
- 3:30 pm to 4:00 pm

10. FOOD AND DRINKS:

Visit the food court for delicious meals and beverages. Popcorn and ice cream are also available at affordable prices. Don't worry if you don't have cash; we have POS machines for easy payment.

11. PLAY ZONE:

Engage in exciting activities at the Play Zone, including bouncy castle, table soccer, basketball hoop, etc.

12. PICTURES:

Capture unforgettable moments at designated photo spots around the hall. Don't forget to tag us on Instagram @stemafrica_fest.

13. GIVE US FEEDBACK:

We value your feedback! Look out for the feedback card or QR code or visit https://bit.ly/STEMAfrica24 and share your thoughts on how we can further enhance future STEM Africa Fest experience.

14. STAY CONNECTED:

Share your STEAM Fun Fest highlights on social media using #STEMAfricaFest2024 or #STEMAfricaFest24. We look forward to seeing your posts.

Enjoy the STEAM Fun Fest and have a fantastic experience!

PROGRAMME OF EVENTS

Registration – 8:00am to 9:00am

Welcome: 9:00am - 9:20am

Masterclass (Keynote speaker – Dr Femi Idowu Adegoke) Special Adviser to the Honourable Minister of State for Environment 9:30 am -9:50 am

Masterclass 10:00 am -11:00 am
1st Panel Session - Empowering Girls In STEM Careers: Strategies for Success

Coding	Science	Electronics	AI and Machine	Recycling
STEAM Lab	STEAM Lab	STEAM Lab	STEAM Lab	STEAM Lab
Qureo City	Dry Ice Boo Bubbles	Introduction to Hardware Rep	PictoBlox as a visual programming	Reduce, reuse, recycle and recover

10am -11am

> **eSport** Parent's Engineering Airbus Zone STEAM Lab Corner Corner eSports AI Tools Create a balloon-Construction game and powered recycled and coding of tournament Space Robots: car. Mission 1

> > 11:00am to 11:30am (Bre ak)



Masterclass 11:30 am -12:30 pm

2nd Panel Session - Renewable Energy and Cleantech Innovations

Coding STEAM Lab

Forever Street Making a

Science STEAM Lab

Volcano

Electronics STEAM Lab Basic Tools

Repair

STEAM Lab Facial Expression for Hardware & Emotion Recognizer

AI and Machine

Recycling STEAM Lab

Reduce, reuse, recycle and recover

11:30am

12:30pm

Airbus STEAM Lab

Construction and coding of Space Robots: Mission 2

Engineering Corner

Make a plastic bottle fan

Parent's Corner

Non Screen coding

eSport Zone

eSports game and tournament

Gradely Product Launch 12:40 pm to 12:50 pm



PROGRAMME OF EVENTS

Masterclass 1:00 pm -2:00 pm

3rd Panel Session - Trends and Emerging Technologies Across Various Industries

> Coding STEAM Lab

STEAM Lab If Factory

Disappearing Colours

Science

Electronics STEAM Lab

Disassembling and Assembling a Hardware System

Al and Machine **STEAM Lab**

Image Classifier

Recycling STEAM Lab

Reduce, reuse, recycle and recover

1:00pm

2:00pm

Airbus STEAM Lab

Construction and coding of Space Robots: Mission 3

Engineering Corner

Design and make a paper windmill

Parent's Corner

Robotics

eSport Zone

eSports game and tournament

2:00 to 2:30pm (Break)







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Masterclass 2:30 pm - 3:30 pm

Mission 2

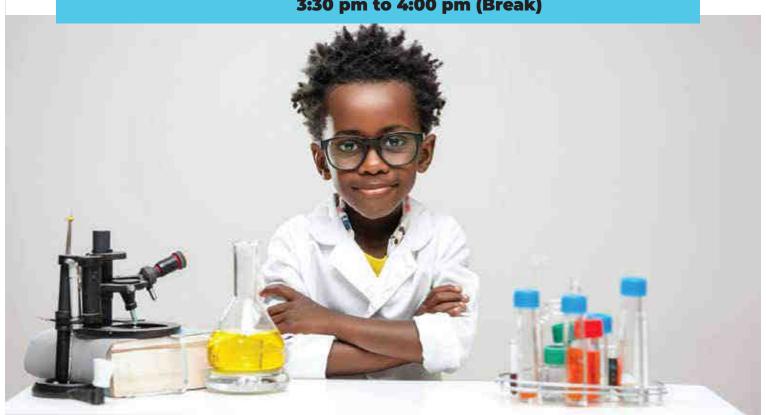
4th Panel Session – How Al is Changing the World and Jobs

Coding Science Electronics Al and Machine Recycling STEAM Lab STEAM Lab STEAM Lab STEAM Lab STEAM Lab Reset Plain Object detection Reduce, reuse, Magic Balloon Diagnosing and Repairing recycle and Hardware System recover

2:30 pm 3:30 pm

Airbus STEAM Engineering Parent's eSport Lab Corner Corner Zone Create a balloon-Construction eSports AI Tools powered recycled game and and coding of car tournament Space Robots:

3:30 pm to 4:00 pm (Break)



PROGRAMME OF EVENTS

Masterclass 4:00 pm -5:00 pm *Pitch Competition and Announcement of Winners*

Coding STEAM Lab

Ifelse River

Science STEAM Lab

Dancing Raisin Electronics STEAM Lab

Repair of Common Hardware System AI and Machine STEAM Lab

Hand Gesture Classifier Recycling STEAM Lab

Reduce, reuse, recycle and recover

4:00 pm -5:00 pm

Airbus STEAM Lab

Construction and coding of Space Robots: Mission 3 Engineering Corner

Make a plastic bottle fan Parent's Corner

Robotics

eSport Zone

eSports game and tournament





VISIT THE

CORNER

Play, Learn, and Win



Prizes

1st place: N200,000

2nd place: N100,000

3rd place: №50,000

· Lots of prizes to be won...

Children 10-15 years

Cash prizes to be won!! Winners will be announced by **5 pm at the**Masterclass area



UNLOCKING CYBERSECURITY CAREERS: PROTECTING YOUR FUTURE IN A DIGITAL WORLD

My tailor recently called me, distraught after falling victim to an online scam that wiped out her savings. Sadly, she wasn't alone. Cybercrime is increasingly common as more of our lives move online. Consider these eye-opening statistics:

- 1. In 2023, cybercrime accounted for over \$6 trillion in damages globally.
- 2. Phishing attacks, where scammers trick people into revealing personal information, increased by 65% last year alone.
- 3. Over 80% of cybersecurity breaches involve compromised passwords.

In a recent webinar with Confidence Staveley, a leading cybersecurity expert, we learned invaluable tips on protecting ourselves from such threats:

Get educated: Explore digital safety websites to enhance your knowledge. Check out the following websites

www.beinternetawesome.withgoogle.com/en_us/ www.start.paloaltonetworks.com/cyber-safe-kids.html

Guard personal information: Avoid sharing sensitive details online, especially in response to urgent or unsolicited requests especially requests that require you to confirm personal information, enter your bank details or password.

Verify requests: Always verify urgent financial requests or requests to send information to another party through alternative communication channels.

Given the rapid growth in cybersecurity, numerous career opportunities are emerging. Here are six key insights into cybersecurity careers:

- 1. Cybersecurity encompasses diverse fields such as network security, information security, application security, ethical hacking, governance/risk and compliance, and security operations center, etc.
- 2. Not all cybersecurity roles require coding skills.
- 3. Key cybersecurity knowledge required includes key tools, cybersecurity concepts, standard operating systems, etc
- 4. Essential skills needed to succeed in this career include problem-solving, a desire to keep learning, and strong communication abilities.
- 5. Experience often outweighs certifications in the eyes of employers, so seek experience after basic education.
- 6. Entry-level positions often serve as gateways to higher-paying roles in the industry.
- 7. Demand for cybersecurity professionals is projected to grow by 31% over the next decade.

As we navigate this digital age, understanding cybersecurity isn't just about protecting ourselves but also about preparing for rewarding career paths. Start exploring these opportunities today to secure a safer and more prosperous future. Keen to learn more about cybersecurity and its career prospects?

Visit www.midwestcommunity.org/resource/free-childrens-interactive-cybersecurity-activity-kit/ to embark on your cybersecurity journey today! Equip yourself with the skills to stay safe online and explore the exciting world of cybersecurity.



Confidence StaveleyFounder of Cybersafe Foundation



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At Amani Health, we specialise in supporting children aged 6 to 17 with expert, compassionate care to ensure your child receives the best support for their mental health and well-being

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Vision Board Programs

Inspire your child to dream big and set achievable goals!

Self-Help Resources

Equip them with tools, books and activities to build resilience, confidence, and emotional well-being.









LAGOS MASTERCLASS SESSION

Key Note Speaker

Dr Femi Idowu Adegoke, Special Adviser to the Honourable Minister of State for Environment.

10:00 am - 11:00 am

Empowering Girls In STEM Careers: Strategies for Success

The future of science, technology, engineering, and mathematics (STEM) is brimming with potential, but a crucial piece of the puzzle is missing – girls and young women. Despite their immense potential, they remain underrepresented in these critical fields. This lack of diversity hinders innovation and limits the solutions we can develop for a changing world. This masterclass explores strategies to ignite and sustain girls' passion for STEM, bridge the gender gap, and unlock girls' untapped potential in STEM.

Moderator

Jadesola Adedeji, Founder, STEM METS

Speakers

Captain Ruth Adebanwo, (Chief Pilot at Ibom Air) Ashley Immanuel, (Co-Founder/COO at Semicolon) Lola Aworanti Ekugo, (Al in Nigeria) Funke Fowler-Amba, (Director, Vivian Fowler School) Okoh Ifeoma, Manager at (Digital Encode Limited)

11:30 am - 12:30 pm

Renewable Energy and Cleantech Innovations

Our planet faces a critical challenge: climate change. But amidst the urgency, there's hope. Renewable energy and cleantech innovations rapidly evolve, offering a path towards a sustainable future. The "Renewable Energy and Cleantech Innovations" masterclass at STEM Africa Fest is your chance to explore the cutting-edge technologies driving the shift towards sustainability in this exciting field. Join us to understand the economic and environmental benefits of these technologies and discover how you can create a greener future.

Moderator

Uzoamaka Amalu, Founder, Project LEAD

Speakers

Kola Osinowo, (Chief Executive Officer of Baobab Nigeria) Tolulope Olukokun, (CEO of Thinkbikes) Olanrewaju Ogunkunle, (Founder Revocube Energies) Mariam Lawani, (Founder/CEO of Greenhill Recycling Limited)

1:00 pm - 2:00 pm

Trends and Emerging Technologies Across Various Industries

The world is undergoing a technological revolution, and its impact is felt across every facet of our lives. The "Trends and Emerging Technologies Across Various Industries" masterclass offers you a deep dive into the groundbreaking innovations transforming critical sectors like healthcare, agriculture, and education. Join us to hear from experts who are leading these advancements and learn how these emerging technologies are creating new opportunities and addressing global challenges. This masterclass is essential for anyone looking to stay ahead in these rapidly evolving fields.

Moderator

Hadiza Garbati, Founder, Kabara Commu<mark>nity Development Initiative</mark>

Speakers

AAdeola Ayoola, (Founder and CEO Famasi) Luther Lawoyin, (Founder/CEO at Pricepally) Lanre Ogundipe, (Founder/CEO at PaveHQ) Damilola Olokesusi, (Co-Founder/CEO of Shuttlers)

2:30 pm - 3:30 pm

How AI is Changing the World and Jobs

Artificial intelligence (AI) is no longer science fiction. It's a game-changer impacting everything from healthcare to finance, and it's fundamentally reshaping the land-scape of jobs. But is AI a friend or foe? This masterclass offers a deep dive into how AI transforms our world. Explore how AI-driven automation and machine learning create new job opportunities while requiring new skill sets. Hear from industry experts about the latest AI innovations

Moderator

Abdul Bature, Co-Founder, Schoola

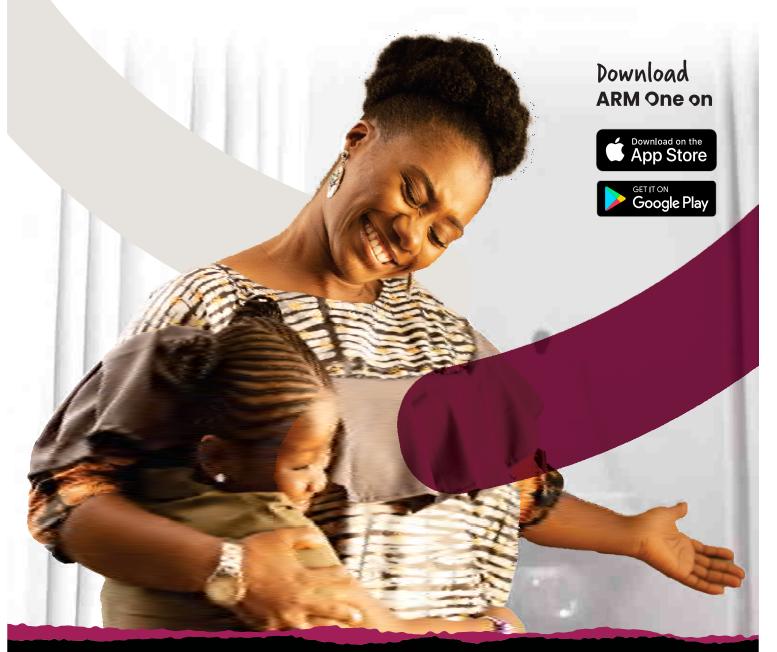
Speakers

David Brown, (Managing Partner at dbrownconsulting) Freda Anyanwu, (Country Director at Global AI Council Nigeria) Oreoluwa Olatain, (Co-Founder at Enif) Favour Femi-Oyewole, (Group Chief Information Security Officer (GCISO) and Data Protection)



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10AM - 2PM DAILY

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UNVEILING THE DNA OF INNOVATION: LESSONS FROM PROF NDUBUISI EKEKWE

Professor Ndubuisi Ekekwe, a Nigeria US-based inventor hailing from Ovim in Abia State, has charted an extraordinary path from humble beginnings to creating revolutionary technologies like microchips for medical robotics and the XL sensor in Apple devices. In a recent webinar with STEM Africa Fest, he delved into the essential elements that constitute the DNA of an innovator and problem solver, offering profound insights for Africa's aspiring creators.

The DNA of an Innovator:

Curiosity: Curiosity is the cornerstone of innovation. It compels individuals to question the status quo, explore new ideas, and seek unconventional solutions. Prof Ndubuisi emphasized that nurturing curiosity from a young age fosters a mindset geared towards continuous learning and discovery.

Spirit of Awareness: Being aware of one's surroundings, global trends, and emerging technologies is crucial for identifying opportunities and anticipating challenges. This awareness enables innovators to stay ahead in rapidly evolving fields and adapt their solutions effectively.

Observational Skills: The ability to keenly observe details and patterns is essential for problem-solving. Prof Ndubuisi highlighted how honing observational skills allows innovators to uncover latent needs and devise innovative solutions that address real-world problems effectively.

Perseverance: Innovation often involves setbacks and failures. Prof Ndubuisi stressed that perseverance is non-negotiable; it fuels the determination to persist through challenges, refine ideas, and ultimately achieve breakthroughs.

Insights for the Next Generation:

In addition to outlining the core DNA of innovators, Prof Ndubuisi imparted practical advice for young Africans looking to make a significant impact:

Chase Knowledge: Prioritize learning and skill acquisition over immediate financial gain. Building a strong knowledge base early in one's career lays the foundation for future innovation and success.

Embrace Technology: While not everyone may pursue a career in computer science, understanding and leveraging technology is indispensable in today's digital age. Prof Ndubuisi emphasized the importance of technological literacy as a competitive advantage across various disciplines.

Develop Skills for the Future: Anticipate future market demands by cultivating skills that are relevant and adaptable. Prof Ndubuisi encouraged young Africans to envision themselves in a job-scarce future and identify skills that will ensure their resilience and employability.

Embrace Challenges: Growth occurs outside one's comfort zone. Prof Ndubuisi urged aspiring innovators to seek out challenges and embrace difficult tasks, as these experiences often lead to personal and professional development.

As children embark on their summer break, let us inspire them to embark on a journey of discovery and skill development. Encourage them to explore STEM subjects, participate in STEM camps, and engage in projects that foster creativity and problem-solving. Together, we can nurture a new generation of African innovators who will tackle our continent's challenges with ingenuity and resilience.

STEAM LABS



AI/ MACHINE LEARNING STEAM LAB Facilitator: Skoogs



Join us at the AI and ML Lab and embark on an extraordinary journey into the realm of artificial intelligence. Discover how AI can enhance our daily lives through personalized experiences and smart technologies.

PictoBlox as a visual programming tool. Facial Expression & Emotion Recognizer Object detection.

AIRBUS STEAM LAB Facilitator: STEM METS



Embark on an exhilarating journey into Robotics in this STEAM Lab! Dive into the captivating realm of robotics as you learn the basics and unlock your creativity by building thrilling engineering projects.

Learn robotics basics.

Have fun with coding.

Build exciting engineering projects.

CODING STEAM LAB Facilitator: Gradely



Step into the captivating world of coding at the STEAM Coding Lab! Develop problem-solving skills and sharpen your logical thinking as you navigate through exciting coding challenges.

Introduction to coding through Scratch. Create interactive projects. Problem-solving and logical thinking.

ELECTRONICS STEAM LAB Facilitator: Pave



Power Up Your Creativity at the Electronics STEAM Lab!
Unleash your inner inventor and embark on an electrifying adventure at the STEAM Africa Fest's Electronics Lab. Here, you'll get hands-on with:

Circuit building challenge Light-up creations. Coding adventure



RECYCLING STEAM LAB Facilitator: Trash2Treasure

Dive into the incredible world of recycling at the STEAM Fun Fest Recycling Lab! Explore the magic of transformation as we turn everyday trash into awesome treasures.

Plastic Bottle Rockets Cardboard Creations Paper Bag Purses



SCIENCE STEAM LAB Facilitator: Kids Literary Circle

Step into a world of scientific wonders at the STEAM Fun Fest Science Lab. Join us in this exhilarating journey where imagination meets discovery, and let the Science Lab at STEAM Fun Fest leave you in awe of the extraordinary world of science:

Dry ice experiments. Disappearing colour. Magic balloon.



LAGOS IMMERSIVE LAB

ESPORTS IMMERSIVE LABFacilitator: Game Evo



Level up your game at the eSports Immersive Lab at the STEM Africa Fest! Dive into the thrilling world of eSports and experience the action firsthand.

Just dance FIFA Tournament

FLIGHT STIMULATION IMMERSIVE LAB Facilitator: Zino Aviation



Take off on an exhilarating journey in the Flight Stimulation Lab at the STEAM Atrıca Fest. Experience what it's like to pilot a plane, explore the wonders of aerodynamics, and feel the rush of taking to the skies - all in a thrilling, simulated environment.

Experience the thrill of flight simulation.

Master the controls of a virtual aircraft.

Navigate breathtaking landscapes from a bird's-eye view.

VIRTUAL REALITY IMMERSIVE LAB Facilitator: Laser Tag



Dive into a hyper-realistic world at the STEAM Africa Fest Virtual Reality Lab! Transcend the boundaries of reality and experience. The Virtual Reality Lab will transport you to unimaginable destinations and ignite your sense of wonder!

Jupiter and Mars Fuji - A magical gardening adventure Blue planet VR explore

SCAN TO GIVE US FEEDBACK

Your feedback is very important to us and will help us improve on future events. Respond to the feedback questions by ticking one box only for each question.



12 INTERESTING STEM FACTS EVERY PARENT MUST KNOW

Imagine what life will be 15 years from now with all the innovations and advancements as well as uncertainties. One thing is crystal clear: A career in science, technology, engineering and maths (STEM) offers so much for our children; opportunity, the chance to shape our world and job stability in an increasingly tech-focused marketplace.

As such, the complexities of today's world require all people to be equipped with a new set of core knowledge and skills to solve difficult problems, gather and evaluate evidence, and make sense of the information they receive from varied print and, increasingly, digital media. The learning and doing of STEM helps to develop these skills and a workforce where success results not just from what one knows, but what one can do with that knowledge.

Why should you step up your child's interest in STEM? Here are some interesting facts about STEM you must know to get you to work!

- a. 50% of economic growth in the last 50 years was due to advances in technology. All key companies revolutionizing our lives (Google, Facebook, Apple, Amazon, etc) STEM powers them.
- b. Maths and STEM would be key drivers of long-term economic growth
- c. Between 2017 and 2027, the number of STEM jobs is expected to double, compared to non-STEM jobs—with positions in computing, engineering, and advanced manufacturing leading the way.
- d. STEM jobs would pay twice the average salary of non-STEM jobs. Generally, 90% of future jobs require digital literacy.
- e. The demand in STEM-related careers will be greater than the number of individuals interested in those careers.
- f. 58% of all new jobs in STEM are in computing (coding, etc)
- g. China and India had the most STEM graduates in 2016 with 4.7 million and 2.6 million graduates respectively.
- h. Anyone can move into a STEM-related career. Students can pursue a STEM education outside of school summer camps, online, volunteer programs, etc.
- i. Over 50% of teenagers have never considered a career in a STEM-related field
- j. Only 1 in 5 College students feel that their primary and secondary school education prepared them for STEM college courses
- k. More than half of teenagers (55%) would be more interested in STEM simply by having teachers who enjoy the subjects they teach.
- I. If we don't engage students by 5th grade in STEM, 92% of boys and 97% of girls will lose interest.

It is increasingly important to focus on STEM in early education (kindergarten and primary school). Children are the future of tomorrow's workforce, so they need to be exposed early to be able to prepare and qualify to fill in the soaring STEM vacancies. But more importantly, STEM education nurtures creativity, critical, collaboration and communication which are the critical skills of the future.

Call us for STEM Teacher Training info@stemafricafest.com
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THE ROLE OF AI IN EDUCATION

Artificial Intelligence (AI) has become a societal norm that has been integrated in various aspects of our lives, whether we like or not! From auto correct in emails, google maps, Alexa to ChatGPT and "AI art", the exponential rise of this technology can be seen in a variety of industries. Should it be something to be afraid of or can we harness it as a tool to better the way we learn? How and does this technology sit in education?

Al has been a part of education technology for some time but is recently gaining widespread adoption. Al has the potential to revolutionize the way we teach and learn, making education more efficient, effective, and accessible. From personalized learning to automating administrative tasks, Al is being used in a wide range of ways in education.

How AI is used in education:	Tools Teachers can use:	
1.Course and lesson plan creation	Top Hat, Education Copilot, ChatGPT	
2.Differentiated learning	Dreambox, Smart Sparrow, Knewton	
3.Auto-grading	Gradescope	
4.Pinpointing knowledge gaps	Exact Path	
5.Test prep	ExamSoft, R.Test, ClassPoint	
6.Admin & task automation	Zapier	
7.Personalized, virtual tutoring	Squirrel Al	
8.Providing student feedback	Turnitin Feedback Studio	
9.Adaptable Universal access	Braina, Ai-Live captioning	
10.Improved Digital Learning	MATHia, Duolingo	
11.Virtual, smart teacher assistant	ChatGPT	

Al enables the personalisation of content for learners so that they are able to ascertain knowledge at their own pace. Various Al Edtech tools are available that can adjust difficulty levels according to the learner's interaction with given questions or activities and even give immediate feedback. This is particularly beneficial for young learners or those who may need more support in the classroom. Furthermore, increased inclusivity for students with disabilities and different learning styles...

This tool also further enables teachers in helping their students with live monitoring of student performance and with data on each student, special attention can be given to those in need and challenge those who are excelling. It also aids teachers in administrative tasks such as grading and tracking attendance thereby giving them more time to engage with students.

One must not overlook the concerns that come with using AI in education. Apprehensions regarding data privacy and the costs of implementing these programs prove as barriers that must be overcome. If AI tools are to be implemented extensively in education, initiatives should be put in place to ensure its use in both well- funded and low-income schools can also benefit. It is our belief that all children should be able to acquire the benefits of advancing technology

The use of AI should ,however, be approached with caution as it cannot be seen as a replacement for traditional methods of learning but as a tool to enhance learning. Human interaction and the development of communication and interpersonal skills is still incredibly vital in development. Additionally, the value of teachers cannot be changed as they serve as a crucial role in mentoring and inspiring young minds. We look forward to seeing where how this technology will develop in education and the positive impact it will have on future generations.



Jadesola AdedejiFounder STEMMETS



TECH CAREER CORNER

Have a question about careers in tech?
Stop by the Tech Career Corner and speak with professionals.















STEAM COMPETITION

WINLERS ANNOUNCEMENT



School

Olashore International School

Project Name

Pyrolysis: a sustainable way to generate energy from waste.



1st Prize - N1,000,000 2nd Prize - N500,000 3rd Prize - N250,000



School Ikorodu, Lagos

Project Name

Transforming Plastic Pollution into Art



School

Lagos, Nigeria

Project Name

Revolutionizing Urban Cleanliness: Clean Bot's Impact on Pollution Control and Air Quality



Project Name

Sustainable Construction and Design: Transforming Sawdust into High-Performance Building and Ornamental Blocks



School

Alimosho Senior Grammar School Lagos State

Project Name

The Cartonero Cabinet

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LAGOS EXHIBITORS LISTING

ARTS

A20 — Anesi Lifestyle

A32 — Clay by Marienne

A24 — Craftycle

A24 — Eben Cuts

A3 — Tunnizze Creation

B8 – Kunbi's Music Company

CORPORATE

B4 – Access Bank

A8 - ARM

A24 — Flour Mills Nigeria

B5 – Lotus Bank

A15 — Wigwe University

DRONE AND VR

A16 — Africa Fintech Foundry

3D Printing

A13 — Innovia Labs

A17 — Generative CAD

EDUCATIONAL APPS & RESOURCES

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A18 — The Little Big Kid Company

B3 -SKLD

A2 — The Lifematics Centre

Schoola

A10 - Kidpreneur Africa

A7 — Sima Abacus

A12 — Smids Animation



LAGOS EXHIBITORS LISTING

ENGINEERING, AI AND CODING

A27 - Nigenius Technologies

A23 — STEM METS

A21 — Wificombat Academy

All — Wiz STEAM

A4 & A5 — WRO Robotics

A19 — Code FunHouse

A22 — Gotocourse

B2 – Smart Kid Engineers

A26 – Kabara Community Development Initiative

RENEWABLE ENERGY

A33 — Baobab+Nigeria

A1 — Revocube Energies

STEM EDUCATION

A29 — APF - AbdulRasak STEM School

 $\mathsf{A30}-\mathsf{WTEC}$

A14 — NuttyScientist Nigeria

A25 — Teammasters



THE AFRICAN CHILD: WHY TECHNOLOGY MATTERS

The 21st-century child is uniquely positioned to drive Africa's future growth through technology. Integrating technology into education is crucial for unlocking the continent's vast potential, particularly in Sub-Saharan Africa.

Bridging the Digital Divide

The digital divide exacerbates educational inequalities in Africa. Many children lack access to basic resources, making it essential to provide technology to ensure equal learning opportunities. Access to technology fosters a more inclusive and equitable educational environment.

Enhancing Learning Experiences

Technology makes education more interactive and engaging. Traditional methods are being replaced with dynamic content that stimulates curiosity and critical thinking. Educational apps and virtual simulations make learning fun and improve understanding.

Preparing for the Future

Future job markets will be dominated by STEAM fields. Integrating technology into education equips children with skills in coding, robotics, and AI, preparing them for tech-driven careers and fostering a generation of innovators.

Fostering Creativity and Innovation

Technology allows children to experiment and create, encouraging problem-solving and critical thinking. Digital platforms enable collaboration with peers globally, promoting innovation and real-world impact.

Empowering Educators

Technology provides educators with resources to enhance their teaching methods and create customized lesson plans. Continuous professional development helps teachers stay updated with the latest educational trends.

Building Resilient Communities

Incorporating technology into education builds resilient communities. Educated individuals contribute positively to social and economic development, using technological skills to address local challenges.

In Summary

Technology in education transforms the future of African children by bridging the digital divide, enhancing learning experiences, and preparing them for future job markets. It fosters creativity, innovation, and resilience, empowering children to contribute to Africa's growth. Embracing this technological revolution is essential for a brighter, more equitable future.



Abdul Bature CEO, Co - founder Schoola

LAGOS EXHIBITOR DETAILS

Afrilearn

Email: isaac@myafrilearn.com

Phone: +234 802 785 5262, +234 805 154 4949

Website: https://myafrilearn.com

Instagram: @afrilearn

Afrilearn is an education streaming service that provides Nigerian and West African Secondary School Students (JSSI-SS3) the freedom to learn relevant subjects and topics, anywhere, anytime. Afrilearn empowers secondary school children to learn to code easily and achieve the best grades in school. Get the free, fun, and effective app for the best school grades. To register for our coding classes, please visit kidscode.myafrilearn.com

Anesi Lifestyle

Phone Number: 234 908 599 1852

Website: https://anesilifestyle.bumpa.shop

Instagram: @anesi_lifestyle

At Anesi Lifestyle, we create more than just candles and diffusers. Our scented products are designed with Intentionality, Quality and Creativity at the core of our operations. We strive to promote mental health awareness, enable lasting memories and foster human connections through the power of scents.

APF - AbdulRasak STEM School

APFPhone - +234 8103 1092 04 Website - https://akogunpeakfoundation.org/ Instagram - @akogunpf

The Akogun Peak Foundation (APF) is committed to empowering underserved youth by providing a safe and nurturing environment for STEM learning. Beginning with our first project in Ijebu Imusin, Ogun State, we will establish our first state-of-the-art STEM (Science, Technology, Engineering, and Mathematics) school, designed to be a beacon of educational excellence and innovation in science and technology.

WTEC

W.TEC is a Nigerian non-governmental organization working for the economic and social empowerment of girls and women, using information and communication technologies (ICTs). We have chosen to focus on this area because statistical evidence has shown that in most African countries, women's use and knowledge of ICTs (to store, share, organise and process information) is lower than men's, denying them of incomegenerating opportunities and the chance to network with others





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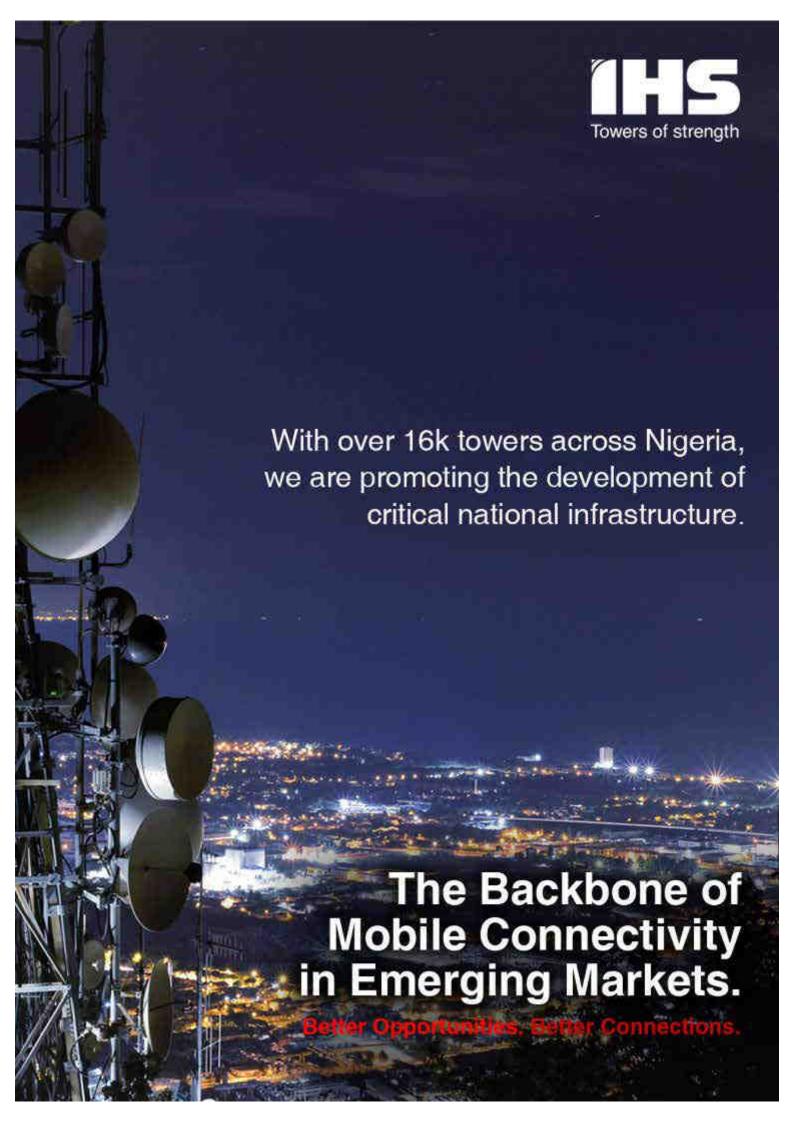


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LAGOS EXHIBITOR DETAILS

Baobab

Phone number: 0700 226 2220

Website: https://baobabplus.com/nigeria/

Instagram: @baobabplusng

Baobab+ is a subsidiary of the Baobab Group, which provides access to financial services for half a million small businesses in Africa and China. Baobab+ is the group that distributes innovative products designed to give people access to energy and digital, thanks to tailored financing solutions.

Clay by Marienne

Phone Number: 234 803 501 8040

Website: https://taplink.cc/claybymarienne

Instagram: @claybyMarienne

Clay by Marienne is a premier clay production company dedicated to enhancing health and well-being through our innovative clay products. We specialize in crafting clay alkaline water bottles, dispensers, and cookware designed to provide a natural and toxin-free alternative to traditional materials. We also offer engaging, one-off and continuous clay classes, allowing enthusiasts of all levels to explore the art and science of clay craftsmanship.

Craftycle

Phone Number: 234 809 878 8884 Website: https://craftycle.com

Instagram: @craftycle

Craftycle Limited creates unique, bespoke craft decorations for event planners, bakers, moms, and individuals seeking personalized touches for their celebrations and spaces. Our handcrafted pieces turn ordinary moments into extraordinary memories.

Edusko

Email: jide.ayegbusi@edusko.com Phone Number: 234 803 656 6809

Website: https://edgo.co Instagram: @eduskoafrica

On edgo.co, you can easily plan, save for and secure your child's education. Our Al-powered budgeting tool helps you make informed savings decisions - allowing you to conveniently save monthly, yearly or one-off, with a target savings goal over a 5 - 25 years. Tailor your savings plan according to your financial capabilities and aspirations for your children's education.

THE AFRICAN CHILD: WHY TECHNOLOGY MATTERS

Did you know that each year, millions of tons of plastic waste end up in our rivers and oceans, harming fish and other marine life? Or that our temperatures here in Africa are getting hotter? Even a small increase in temperature, like just 1 degree Celsius, can cause big changes. It means longer and hotter dry seasons, more frequent and severe heat waves, more intense storms, and even less water for our farms and rivers and food scarcity.

What is Cleantech?

Cleantech, short for clean technology, is all about using science, engineering, and innovation to create products and services that help protect our environment. It's like super cool gadgets and ideas that don't harm the Earth.

Imagine solar panels that soak up sunlight to make electricity, wind turbines that spin with the breeze to generate power, or even electric cars that zoom around without polluting the air. That's Cleantech in action!

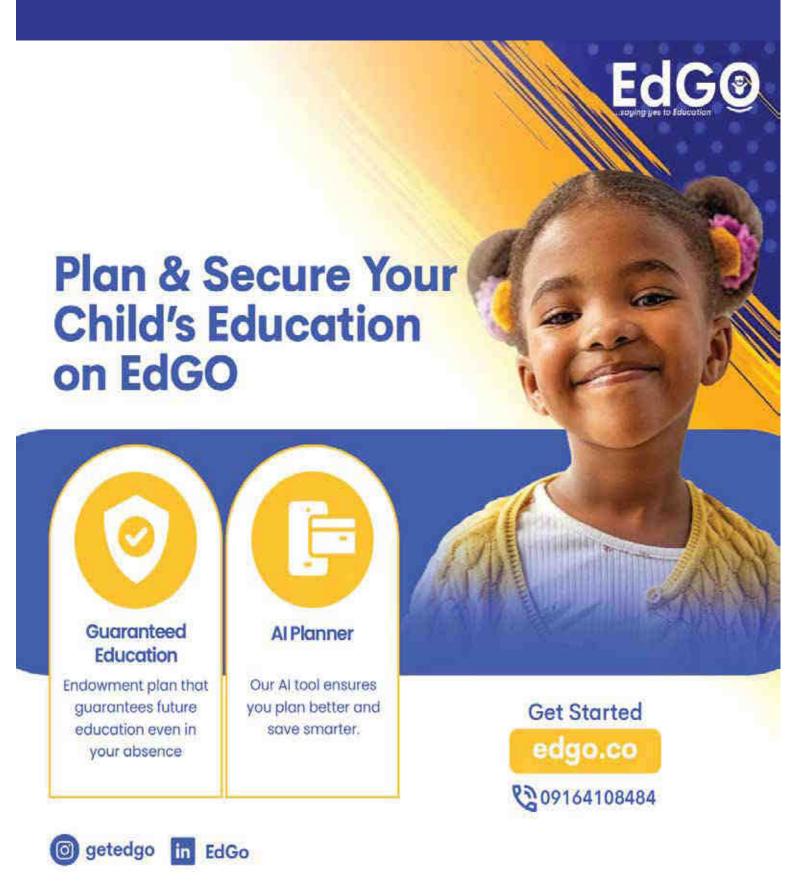
Climate Action means taking steps to reduce the impact of climate change – helping to save our planet. Here are 6 ways you can help save the planet:

- 1. Save Energy: Turn off lights and gadgets when you're not using them. Little changes add up to big energy savings!
- 2. Save Water: Water is precious. Turn off taps tightly, fix leaks, and use water wisely – every drop counts!
- 3. Reduce, Reuse, Recycle: Remember those three R's? Use less stuff, find new ways to use things (like turning old jars into cool crafts), and always recycle cans, bottles, and paper.
- 4. Plant Trees: Trees are like the lungs of our planet. They breathe in carbon dioxide (a gas that can make the Earth too warm) and give us fresh oxygen to breathe.
- 5. Reduce Food Waste: Plan meals, use leftovers creatively, and compost food scraps. Food waste contributes to greenhouse gas emissions, so reducing waste helps fight climate change.
- 6. Speak Up: Tell your friends, family, and even your school about why taking care of our planet is so important. The more people who know, the more we can all work together!

Start by doing one thing today to help our planet. Maybe it's picking up trash at the park, planting a tree with your family, or teaching someone else about cleantech and climate action.









ABOUT KABARA

Kabara Community Development Initiative (KCDI) is a non-profit organization focused on empowering communities through STEM (Science, Technology, Engineering & Mathematics) education and Arts in Northern Nigeria. At Kabara, we are focused on building intellectual capacity within the region and transforming the lives of people in Northern Nigeria through quality education.

REQUIREMENTS

- Ages 6-16
- · Enrollment in a secondary school
- · Residing in Northern Nigeria

WHAT WE TEACH

- Robotics & Automation
- Sustainable Energy Practice
- O Coding & Programming
- O Digital Media &mLiteracy
- Financial Literacy & Management

SPONSORSHIP

Support STEM education for girls in Northern Nigeria with your timely donation.

Payment Details:



Kabara Comm. Dev. Initiative 1437587360 Access Bank

MORE INFORMATION



+234 806 897 6990



www.onekabara.org



No. 7, New Sokoto Road. Nasarawa, Kano. Support Kabara's mission to transform lives in Northern Nigeria through STEM education today!

LAGOS EXHIBITOR DETAILS

Gradely

Email: support@gradely.co Phone: +234 810 059 8268 WhatsApp: +234 909 433 3444 Website: www.gradely.co Instagram: @gradely.co

Gradely is a personalized learning app that empowers parents with learning resources and on-demand tutors to help improve their kids' grades and bridge learning gaps. Register your child for our project-based online summer school, which features profitable, monetizable skills for the future.

Hands-on Empowerment Programme Initiative

Email: hands.on.empowermentprogram@gmail.com

Phone: +234 803 425 3787

Hands-on Empowerment Programme Initiative is a Non-Governmental Organization (NGO) that works in the community with the primary goal of educating the children on social and emotional wellness and other important life issues, educative lessons using puppets and Craft as a medium for behaviour change communication, addressing culturally challenging issues in a manner that is both effective and enjoyable for children ages 2 to 16.

Innovia Labs

Email: hello@innovialabsafrica.com

Phone: +234 802 359 1880

Website: https://innovialabsafrica.com

Instagram: @innovialabs

Innovia Labs is an Open Access, Social Enterprise Hardware Fabrication Laboratory and MakerSpace, Designed to Self-Proliferate and introduce S.T.E.A.M (Science, Technology, Engineering, Art, Mathematics) and Digital Manufacturing to young Africans to help turn their ideas into great products to solve global challenges.

Kabara Community Development Initiative

Email: hadiza@kabaratech.com Phone Number: +234 806 502 9489 Website: https://onekabara.org/ Instagram: @Kabarakreatives

Kabara Community Development Initiative (KCDI) is a non-profit organization focused on empowering communities through STEAM (Science, Technology, Engineering, Arts, and mathematics) education in Northern Nigeria with a primary goal to improve access to quality education in underserved communities through programs, scholarships, etc., for students ages 6 to 60.

WHY SHOULD WE EMBRACE STEM EDUCATION IN NIGERIA?

I witnessed the success of integrating STEM education at a top British International school in Dubai, where I worked for over 12 years. We started with STEM project weeks, leading to a curriculum redesign that integrated STEM into various subjects, making learning more relevant and multi-faceted.

In 2011, Dubai's National Agenda aimed for 100% STEM integration by 2021, leading to significant improvements in their private schools global TIMSS rankings: from 42nd to 9th in Maths and from 43rd to 7th in Science. This success was due to innovative curriculum design, investment in educational technology, and continuous teacher training. Additionally, there has been steady growth in the number of students applying for STEM-related university degrees.

In Nigeria, adopting a STEM approach can develop critical skills like problem-solving and resilience. It's crucial to integrate STEM throughout the curriculum rather than treating it as an after-school activity. Science, technology, engineering, and mathematics provide a cohesive learning experience.

To successfully embed STEM Curriculum in Nigeria's education system, school must:

- Conduct a STEM audit to identify curriculum gaps.
- Design a comprehensive STEM curriculum.
- Assess STEM integration effectiveness through various metrics.
- STEM Africa can help position your school for the future.



LAGOS EXHIBITOR DETAILS

Kidpreneur Africa

Email: kidpreneursafrical@gmail.com

Phone: +234 0903 309 9790

Website: https://kidpreneurafrica.com Instagram: @kidpreneurafricaofficial

Kidpreneur Africa is an organisation that empower young people (ages 7-15) in Africa with entrepreneurial skills, financial and digital literacy. We aim to inspire and equip young Africans to become innovative problem-solvers, job creators, and change-makers, by providing training, resources, and support to help young people develop business ideas, create products and services, and build successful enterprises.

Kunbi's Music Company

Kunbi's Music Company (KMC) are a mission-driven, hybrid music school, that provide modern, tech-enabled and structured music lessons for all ages and abilities. Lessons are delivered either online, onsite, or on-demand. We believe that well-structured music lessons help learners grow confidence, courage, creativity, cognition, and character.

Kunda Kids

Email: support@kundakids.com Phone: +234 816 789 4220

Website: https://kundakids.com/

Instagram: @kundakids

Kunda Kids is an award-winning children's publishing, Edtech, media company based in London. We are one of the leading providers of diverse children's books and digital stories to parents, schools and libraries worldwide, inspiring children to learn African history and culture in a fun and engaging way.

Wiz STEAM

Email: ebo_ruth@yahoo.com Phone Number: 234 907 402 2886 Website: https://wizsteamng.com

Instagram: @wizsteam

Wiz STEAM by educational resource concept is to empower children to create their best digital future by providing STEAM education training and products to K-12 students and teachers through partnerships with schools and developing global standard STEAM resources and kits.



Nurture their zing

with Amaizing Day Cereal which contains Calcium.



Calcium
Supports
Strong Bones
and Teeth.

Protein For Daily Growth. Dietary Fibre For Good Metabolism. Vitamin A
Supports
Normal
Vision.

Golden Penny Amaizing Day Cereal, Nurture them for the future.

LAGOS EXHIBITOR DETAILS

Nigenius

Email: info@nigenius.ng

Phone Number: 234 817 343 6415 Website: https://nigenius.com.ng/

Instagram: @nigenius

Nigenius is a one-stop online platform that provides teachers and parents with resources and tutoring services, and it helps schools deliver STEM curriculums.

Revocube

Email: info@revocube.com

Phone Number: +234 705 394 4594 Website: https://revocube.com/ Instagram: @revocubetechnologies

We provide modern and innovative technology solutions that bring value to businesses of all sizes, from small startups to medium enterprises and large corporations, spanning across various industries.

Schoola

Email: caleb@schoola.app

Phone Number: +234 916 944 5690 Website: https://www.schoola.app/

Instagram: @schoola.apps

Schoola is an EdTech company building tools for African education that are future-ready. At Schoola, we believe that learning should be engaging, interactive, and personalized.

SKLD Stores

Phone Number: +234 817 126 5688

Website: https://skit.ng/ Instagram: @skit.ng

SKLD Stores, formerly School Kits, has been a trailblazer in the Nigerian retail industry since 2000, pioneering the one-stop back-to-school store model. With over 23 years of experience, we have established ourselves as a trusted and leading educational supplies brand, serving hundreds of top schools and over 100,000 parents nationwide. With 7 retail stores across Lagos, Abuja, and Port Harcourt, we have solidified our position as Nigeria's foremost one-stop school supplies brand.

TAW Academy

Email: taw.nigeria@gmail.com Phone Number: +234 810 309 0297

Instagram: @tawacademy

TAW Academy is a Creative Education Social Enterprise that designs fun learning tools and programs that improve learning outcomes, promote experiential learning and develop success skills in children ages 0 to 18. We design Think-And-Do learning tools and educational board games. Over 120,000 African children use our Chewa word board game and Mindo numbers booster.



LAGOS EXHIBITOR DETAILS

The Learning Craft

Email: enquiry@learningcraft.org Phone Number: +234-01-4537575 Website: https://thelearningcraft.com

Instagram: @thelearningcraft

The Learning Craft is a social enterprise that supports the public and private education sectors with holistic learning and development programs across Africa. Our collective expertise offers decades of experience helping institutions develop inclusive, equitable, and contextual curricula for their professional development and education programs. We provide products and services through materials, modular interactive online content, workshops, conferences, etc.

The Lifematics Centre

Email: thelifematics@gmail.com Phone Number: +2348068464607 Website: https://lifematics.com.ng/ Instagram: @thelifematicscentre

The Lifematics Centre renders private maths tutoring creatively online & offline and sells STEAM games, toys, and books to engage children off the screen.

The Little Big Kid Company

Email: toyosi@thelittlebigkid.net
Phone Number: 234 810 100 7614
Instagram: @thelittlebigkidcompany

The Little Big Kid Company is a boutique-style kid store that sells quality toys and gift items for children from Newborn to Age 10. The company celebrates childhood and parenthood by providing carefully selected gifts and toys that kids love and parents appreciate.

Tunnizze Creation

Email: tunnizzie@gmail.com Phone Number: +234 803 769 1524

Instagram: @tunnizze

Tunnizze Creation is a business based in Lagos, Nigeria, that aims to nurture children's creativity through knitting and crocheting. They offer classes and aim to reach 20,000 African children with these skills. They are the authors of a knitting book called "Knittingabc: 22 patterns for the young to explore."

