SCIENCE INTO USE VOLUME 3 NOVEMBER - 2026 ISSUE LEARNING. INNOVATING. LEADING.

SITU MAGAZINE



PROFESSOR NUHU HATIBU

THE VISIONARY BEHIND ARUSHA SCIENCE

Syncore Technologies

Creating Solutions Through AI, Software and Robotics

INSIDE STORIES:

- *Alumni Corner : Petroleum & Gas Eng. Robert Mbuki's Story*
- *Our New Head Boy and Head Girl*
- *Ready For The El Niño Rains*
- *Science & Tech news*
  - *China Introduces The Future Of 6G*

BIRTHDAY EDITION

ARUSHA SCIENCE | The Official MAGAZINE of Arusha Science School

WELCOME TO THE BIRTHDAY EDITION OF SITU MAGAZINE

Celebrating Professor Nuhu Hatibu's vision, leadership and lasting impact



There is something special about celebrating the people whose vision, courage and dedication have helped shape who we are today.

As we present the third edition of the Arusha Science magazine, we do so with great joy and gratitude. This is a particularly special edition because it coincides with the birthday of our founder, Professor Nuhu Hatibu. It is an opportunity to celebrate not only another year of his life, but also the vision and commitment behind the institution we are proud to call home.

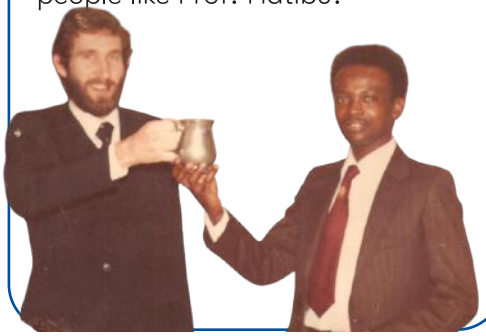
Arusha Science is more than a place where students come to learn. It is a community built on ideas, possibilities and the belief that education can transform lives. At the heart of this journey is Prof. Hatibu, whose passion for education and belief in practical, meaningful learning continue to influence the direction of our school. His vision challenges us to think beyond traditional education and to create an environment where young people are encouraged to question, explore, create and turn knowledge into solutions.

There is, of course, so much more we could write about Professor Hatibu's life, achievements and contribution to education. His story deserves much more space, and we look forward to sharing more of it in future editions.

However, on this special occasion, we wanted to make him feel appreciated and celebrated. Through this magazine, we also hope to give our readers, including those beyond our school community, a glimpse of the kind of leader whose vision continues to guide Arusha Science. Inside this edition, you will find heartfelt messages from members of our staff, each sharing their own experiences and reflections on his leadership, mentorship and influence.

Beyond this celebration, there is much more to discover. Our Student Corner features stories about leadership, responsibility and the experiences that shape young people into confident individuals.

These stories remind us that while we celebrate the achievements of one remarkable educator, we are also nurturing the next generation of leaders, thinkers and innovators, perhaps even future professors who will carry forward the spirit of people like Prof. Hatibu.



Our Innovation Spotlight takes us into the creative minds of our students, highlighting what happens when learning moves beyond the classroom and ideas become practical solutions.

We also bring you an inspiring Alumni Story, reminding us that the impact of education does not end at graduation. The journeys of our former students show what is possible when young people are given the knowledge, confidence and opportunities to pursue their ambitions.

Without forgetting about our Community Section highlights, the recent repair of the bridge connecting the main road to the school entrance as we prepare for the expected El Niño rains later this month. Meanwhile, in Campus Life, we feature our school nurse and the care she provides, ensuring that students are safe and well looked after throughout their time at school.

As you turn these pages, I hope you find stories that inspire, ideas that make you think and moments that remind you of the purpose behind what we do.

Happy Birthday, Professor. Thank you for the vision that brought us together and for continuing to inspire the journey ahead.

Enjoy the edition.

Mary Brise
Head of School
Arusha Science School

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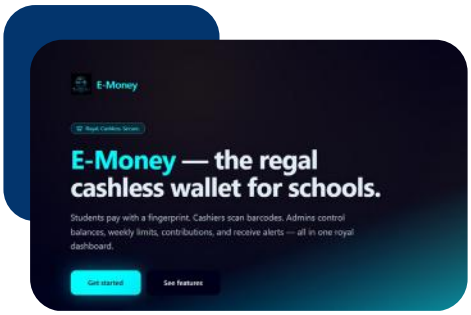
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INNOVATION SPORTLIGHT

Syncore Technologies:

Building Technology with Purpose

Company Name: Syncore Technologies
Motto: "Technologies with Purpose"
CEO: Jaffary J. Shija
Industry: Software, AI, IoT & Robotics



At Arusha Science, we enjoy showcasing what our students are doing beyond the classroom. There is something special about watching a student move from learning a concept to using that knowledge to create something of their own.

These experiences do more than develop technical skills. They nurture leadership, teamwork, business awareness and the confidence to take an idea and bring it to life.

One example is Syncore Technologies, a young technology company built around a simple but powerful belief: technology should solve meaningful problems, not exist merely for appearance. Led by Jaffary J. Shija, Syncore brings together young innovators exploring software development, Artificial Intelligence (AI), the Internet of Things (IoT), hardware integration and robotics. Their approach is centred on identifying challenges, researching ideas, building solutions, testing them and continuously improving their work.

The team believes that software, intelligent technologies and connected devices can complement one another to create practical solutions for everyday needs.

One of its completed projects is E-Money, a cashless wallet designed for schools. The platform aims to make school payments and financial management easier through a connected digital system. Students can make payments using fingerprint identification, while cashiers scan barcodes. Administrators can manage balances, spending limits and contributions through a central dashboard.

It is an interesting example of how technology can simplify everyday school processes while creating a more organised and convenient experience. The project has also earned the team two awards.



Another project is the eLearning Platform, developed to support digital learning in schools. Built around the idea "Learn · Grow · Achieve," the platform brings together tools that support teachers in managing their classes.

Its teacher dashboard includes weekly timetables, class lists and access to live lessons, helping bring different aspects of classroom learning into one digital space.



But Syncore is not stopping there. The team has identified several upcoming projects, including E-Hospital, Vireo-Tech and the Omnibiz Platform. While these projects are still to be started, they reflect the team's ambition to explore more areas where technology can make a meaningful difference.

Behind this work is a team with different responsibilities and strengths. Jaffary serves as Chief Executive Officer (CEO), Daniel Murimi as Chief Operating Officer (COO), Furaha Balozi as Chief Marketing Officer (CMO) and Code Master, while Millard Mushi leads development and specialises in AI.

Their efforts have already earned them two notable titles: **Best Innovation at ICT Day at IAA Arusha and Best Young AI Innovators by TFFT / ComTech Alliance.** The team also received **the Devotha Nyambo Award for Young AI Innovators for E-Money,** alongside a Certificate of Participation.

The team also acknowledges the influence of Sir. Dionis Lenga, Their ICT Teacher and Project mentor and the learning environment at Arusha Science, whose encouragement and inspiration have contributed to its innovation journey.

For us, Syncore is a reminder that learning goes beyond textbooks. Through real projects, students develop leadership, teamwork, business skills and the confidence to turn ideas into solutions. This is Science Into Use: turning curiosity into action and preparing young innovators to make a difference.

STUDENT VOICES

Leading with Honor, Serving with Purpose



By - Einstein Michael Mwewe
Head Prefect, 2025/2026

My name is Einstein Michael Mwewe, and serving as Head Prefect of Arusha Science during the 2025/2026 academic year has been one of the greatest honours of my school journey. It has been an experience filled with lessons and challenges that have shaped my character.

I have learned that leadership is much more than holding a title or giving instructions. It is about understanding people, making difficult decisions and learning along the way. I am grateful for the support and guidance of my teachers, school leaders and prefect mentor, who helped me navigate this responsibility.

One of my biggest lessons has been learning to balance education and leadership. Being a student while serving as Head Prefect meant managing responsibilities that sometimes competed for my time and attention. There were moments of pressure, but I learned that finding balance was essential.

Throughout my journey, I tried to stand by five values: Honour, Integrity, **Compassion, Discipline and Love.** These became my guiding principles, especially during difficult moments. They helped me remain focused and see light in the midst of darkness.

"I believe a leader needs more than the ability to give instructions; they need values that guide their actions and decisions."



One of my main challenges was balancing teachers' needs and expectations while ensuring students' voices were heard. I often found myself between different people, each with their own concerns. I learned that I could not favour one side over the other. Without balance and fairness, nothing can proceed peacefully.

Leadership taught me to listen, consider different perspectives and remember that everyone's voice matters.

Beyond the responsibilities, this position helped me grow in character. I learned patience, understanding and how to work with people with different personalities. I am especially grateful to my teachers and Prof. Nuhu Hatibu for setting a great example of leadership, showing me that leading others begins with the values you practise yourself.

As I hand over the responsibility to the new prefect government, I thank God and Arusha Science for giving me this opportunity. I wish the new Head Boy, Head Girl and their team the very best. May they build on what has been achieved and continue bringing out the true potential of Arusha Science and its students.

One thing I leave behind regretting is that I could have done so much more. However, I carry the lessons and memories with gratitude.

My focus now shifts to my studies and preparing for my final examinations as I look forward to completing high school next year.

My final message is simple: YOU CHOOSE WHOM YOU WANT TO BECOME. HAVE A STAND, BELIEVE IN GOD AND LET YOUR VALUES GUIDE YOU.

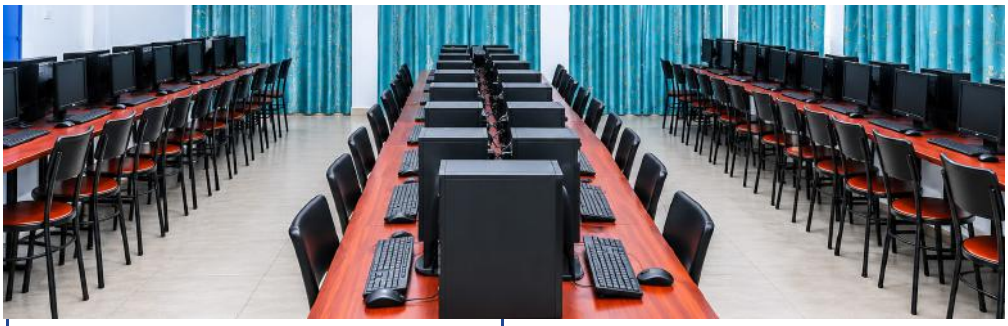
THANK YOU, ARUSHA SCIENCE, FOR THE OPPORTUNITY TO SERVE.

A Dream Waiting to Be Explored

By - Sarah Boniphace Malisa
Form I - 14yrs



Ever since primary school, I have always loved Information Technology (IT) lessons. However, I never had access to computers, so I could only imagine what it would be like to use one. When I was finishing my Standard Seven examinations at Laureate International School in Mwanza, our headmistress visited our school and gave us letters to take home to our parents. When my father read the letter, he said Arusha Science was a good school, and I was very happy when I heard that it offered computer lessons.



When choosing my subjects, I decided to join the Vocational Stream instead of General Studies because it includes Computer Applications and Computer Programming.

Stepping into the computer lab for the first time felt like entering a whole new world. Suddenly, all the dreams I had carried since primary school were right in front of me, waiting to be explored.

If there is one thing I have learned, it is that when you have a dream, you should chase it. No matter where you start, with a little hard work and the right opportunity, you can open doors you never thought were possible.

Leadership: A Journey of Growth and Responsibility

By - Boarnage Korassa
Form I - 13yrs



My name is Boarnage andI would like to share what leadership means to me and the lessons I have learned along the way.

Leadership is the act of guiding and directing others towards achieving their goals. Personally, I have been given leadership responsibilities since childhood.

From preschool to Grade Three, I served as an assistant class monitor. In Grade Four, I was elected as a class monitor.

One day, I punished my classmates for making noise. However, that experience made me realise something important: a leader should protect their people, not harm them. I understood that my actions were wrong, and it became one of my earliest lessons in leadership.

In 2023, I was appointed Environmental Prefect, a role that came with several challenges. On one occasion, I assigned prefects to supervise cleanliness, and everyone agreed except one Health Prefect. I reminded him that environmental matters were my responsibility, just as health matters were his. I also emphasised the importance of respecting each other's responsibilities. This experience taught me the importance of confidence and standing by my duties.



In 2024, I was elected Head Boy at the primary school, before Joining Arusha Science. I was excited, especially because I had a confident Head Girl beside me. When asked what I would do if elected, my answer was simple: I would protect my fellow students and never harm them through my decisions, actions or words.
Looking back, I have learned five important lessons about leadership:
1. Leadership starts from a low position and grows to higher responsibilities.
2. A good leader protects their people rather than harming them.
3. Leadership means guiding others towards success.
4. A leader needs influence to inspire people to listen and follow.
5. A good leader must accept criticism because it helps them recognise and correct their mistakes.

If we practise these lessons, we can become great leaders, just like the late Nelson Mandela.



INTRODUCING OUR STUDENT LEADERSHIP

Our new Head Boy and Head Girl share their vision for student leadership, their hopes for the year ahead and how they plan to inspire positive change alongside the prefect team..

Arusha Science has a new student leadership team! Following a competitive election process, Ebeneza Christopher Seidimu and Ester Erasto Mlawa have been elected Head Boy and Head Girl, respectively. With fresh ideas, different strengths and a shared desire to make a difference, they step into their new roles ready to shape another chapter of student leadership.

At Arusha Science, the election process begins with students submitting application forms, followed by screening from the student government and teachers. For the top positions of Head Boy, Head Girl and Secretary, the entire school participates in an online vote that remains open for 24 hours. Results are announced during assembly, usually two to three days later, before the new leadership cabinet is formally recognised.

For this edition, we sat down with our two new leaders to learn about their journeys, what inspires them and the changes they hope to bring. One thing became clear: although they have different personalities and approaches, they share a strong sense of responsibility and a genuine desire to see their fellow students grow.

At 18, Ebeneza describes himself as a visionary and enthusiastic student with a passion for developing future leaders. A third-born child, he began his education at St. Augustine in Dar es Salaam before joining Arusha Science. His interest in practical projects and leadership has continued to shape his school experience.

Ester, 17, is the second-born in her family and joined Arusha Science from The Voice Secondary School in Arusha. Ambitious and naturally drawn to leadership, she enjoys encouraging others to become better versions of themselves.

Their first impressions of Arusha Science were different but equally memorable. For Ebeneza, walking through the school's blue gate and seeing its green surroundings introduced him to a different kind of learning environment. He soon discovered that learning went beyond classroom lessons, with practical projects and opportunities to connect with the wider community.

Ester, on the other hand, remembers feeling at home almost immediately. The support of teachers and fellow students made her feel welcome, while the school's practical, competency-based approach caught her attention. She even remembers her first school dinner, rice and beans!

Both agree that Arusha Science has helped them discover their strengths and build confidence.

Behind every growing leader are people who offer encouragement along the way. Ebeneza remembers Mr. Amani, a teacher at his former school, who recognised his enthusiasm for projects and encouraged him to consider Arusha Science. Since joining, opportunities to meet different people, connect with universities and participate in technology-related events have broadened his outlook.

Ester is grateful to teachers who have encouraged her, including Mr. Mishita, Mr. Lukumay, Mr. Gilbert and Mr. George Njiku. Their guidance has helped her become more confident, particularly when speaking in public and expressing her ideas.

For Ester, this personal growth is one of the achievements she values most, and something she now hopes to inspire in others.

Interestingly, this will be Ebeneza's third year serving as Head Boy, having held the same position for two years at his former school. His experience gives him a foundation, but he understands that every school community is different and comes with its own expectations.

For him, the role is an opportunity to strengthen his leadership skills while helping others grow.

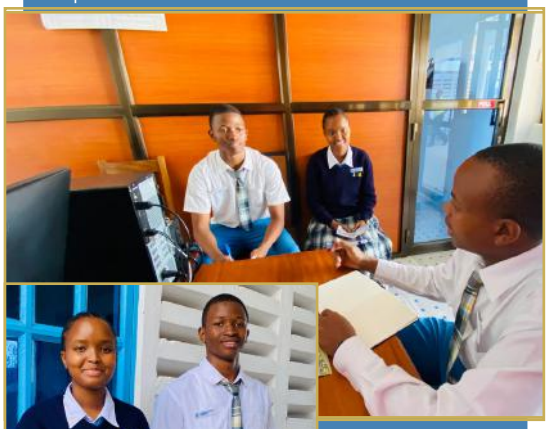




He knows his serious approach can sometimes be misunderstood, but hopes students will recognise the good intentions behind his decisions. Ester sees her position as an opportunity to become more responsible and set a positive example, particularly for other girls. She also believes that correction should not always be seen as punishment. A leader should correct others with the intention of helping them improve.

"Leadership is not about having a title; it is about being responsible and setting an example for others." - Ester

Both understand that leadership will not always mean making popular decisions. There will be disagreements, competing expectations and moments when they must stand firm. They believe the best decisions come through listening, consultation and considering different perspectives rather than relying on one person's opinion.





So, what would they like to achieve during their term?

Ebeneza wants students to become more independent, responsible and capable of managing their duties without constant supervision. He also believes academic success requires balance. Alongside studying, students need sports, recreation and other activities that help them remain focused and perform at their best. He hopes to encourage students to take greater ownership of their responsibilities while making better use of the school's opportunities beyond the classroom. He is particularly interested in exposing students to festivals, events and people from different backgrounds, allowing them to connect what they learn at school with the wider world.

"I want students to become more independent, responsible and confident in taking ownership of their duties." – Ebeneza

Projects such as Cyclo have shown him what students can achieve when they are given room to apply their ideas. Ester's priorities centre on confidence, participation and belonging. She wants students to feel comfortable expressing themselves and to know that their voices matter. She also hopes to encourage more students to participate in practical projects, activities and competitions.

One of her ambitions is to establish a committee focused on SITU (Science-In-To-Use), helping students become more involved in practical learning and bringing their ideas to life.

Their ambitions reflect the spirit of Arusha Science: a school where students are encouraged to think creatively, work together and turn ideas into action.

Neither student believes leadership should be a one-person show. They recognize that their success will depend on how well the new cabinet works together and communicates with teachers, school management and fellow students.

Balancing leadership with academics will also be important. Ester emphasizes time management and self-control, while Ebeneza believes leaders must maintain good academic performance and practise the responsibility they expect from others.

When asked what they hope students will remember after their term, Ester hopes to be remembered for fairness, while Ebeneza wants to be an example of the next generation of leaders. They also see strengths in each other. Ester admires Ebeneza's strength, while he appreciates her ability to be serious and charming at the same time. It is a small but encouraging reminder that good leadership can bring different personalities together.

We couldn't let our new leaders go without a few quick questions! Here is a little glimpse of the people behind the badges.

Quick Fire

What is your favourite subject?
Ebeneza: Physics. Ester: Mathematics

What is your favourite school meal?
Both: Ugali and chicken.

Are you an early bird or a night owl?
Ebeneza: An early bird.
Ester: An early bird.

What is one thing people may not know about you?
Ebeneza: I like watching the news.
Ester: I can sing!

If you could meet one famous person, who would it be?
Ebeneza: Professor P. L. O. Lumumba.
Ester: Rowan Atkinson (Mr. Bean)

What advice do you live by?
Ebeneza: Work hard for a better tomorrow - advice from my father.
Ester: Do everything with all your heart.

If you could introduce one change to address a challenge in Tanzania, what would it be?
Ebeneza: Encourage students to become more independent and responsible.
Ester: Support access to free loans for women in business.

As Ebeneza, Ester and the new student leadership cabinet begin this journey, we wish them a successful and rewarding term and look forward to seeing their ideas turn into meaningful action and the positive difference they will make at Arusha Science.

CAMPUS LIFE

MORE THAN MEDICINE

A Place of Care at Arusha Science



When parents send their children to a boarding school, one of their greatest concerns is knowing that they will be safe and well cared for, especially when they are unwell or need medical attention.

At Arusha Science, student welfare is taken seriously, and the school infirmary is an important part of ensuring that no student is left without support when they need it.

Led by Elizabeth Munishi, the school's Matron and Nurse, the infirmary provides medical assistance to students and staff around the clock. It is organised into three rooms: a nursing and examination room, a resting room for boys and a separate resting room for girls. Each resting room has two (2) beds, giving students a comfortable and supervised space to rest and recover when they are unable to continue with their usual activities.

The 24-hour service is particularly important in a boarding environment, where illness and injuries can happen at any time. Whether a student develops a fever during the night, experiences stomach discomfort or gets injured during sports, there is someone available to attend to them.

The infirmary provides basic health checks, including temperature, weight, blood pressure and blood sugar measurements. It also offers first aid, wound dressing and support for common health concerns such as pain, flu, stomach upsets, diarrhoea and acidity.

Students with specific health needs, including those living with diabetes, also receive attention, with facilities available for the safe storage of insulin and other medication. However, caring for students goes beyond treating illnesses. The infirmary also plays an important role in health education, encouraging students to practise good personal hygiene, understand their bodies and take responsibility for their wellbeing.



Elizabeth has also been teaching students basic first aid so they can recognise when a fellow student needs help and understand how to assist while waiting for professional attention.

"I see myself as a mother here. When students arrive, we explain the services available and show them where to go whenever they need help. Especially with the younger ones, we try our best to make them feel comfortable and understand that they can come to us without being afraid or shy," Elizabeth explains.



For cases requiring specialised medical attention, the school arranges referrals to hospitals, including Mount Meru Regional Referral Hospital, Selian Lutheran Hospital and St. Joseph Hospital. Parents are informed before their children are taken for further treatment, and their preferences regarding hospitals and doctors are considered.

The school also follows up after appointments to understand the treatment given and any continued care required. All students receive medical insurance upon enrolment, further supporting access to healthcare when needed.

Behind this service is cooperation between the infirmary, school management, teachers and parents. The management supports the provision of medicines and medical supplies, helping ensure that students receive timely attention.

At Arusha Science, we understand that parents entrust us with more than their children's education. They entrust us with their care.

Through the infirmary, continuous medical support and a community that looks out for one another, we work to ensure that every student is cared for, supported and able to make the most of their time at school.

OUR COMMUNITY

PREPARING FOR THE RAINS

PROTECTING OUR SCHOOL & COMMUNITY

How Arusha Science is strengthening its infrastructure and preparing for the expected El Niño rains.



Tanzania is preparing for a rainy season expected to be influenced by strong El Niño conditions. The Tanzania Meteorological Authority (TMA) has warned of normal to above-normal rainfall in several parts of the country, including the north-eastern highlands, with increased risks of flooding, waterlogging and damage to infrastructure.

The government has also activated a National Emergency Plan, calling on institutions and communities to take early precautions.

At Arusha Science, preparedness begins with understanding our environment. Alongside our own weather station, which helps us monitor local weather conditions, the school has invested in improving the bridge connecting the main road to the school entrance.

This is an important access route for our students and staff, as well as members of neighbouring communities who use it daily.

However, the project goes beyond repairing the bridge. Previous heavy rains caused significant damage to the school fence, as large volumes of water flowed through the area. This experience highlighted the need to manage not only the infrastructure but also the movement of water around it.



As Prof. Nuhu Hatibu explains, the engineering approach is to give rainwater a designated path rather than allow it to flow unpredictably and build up destructive force. One important measure is the installation of gabions, strong wire structures filled with stones and placed in vulnerable areas to stabilise the ground and resist the pressure of flowing water. Large stones are also being positioned along the water's path to help protect the ground and reduce erosion.



Another key feature is the construction of a drainage channel, which Prof. Hatibu refers to as a drift. This provides an alternative route for excess water to flow during heavy rainfall, preventing it from

concentrating around the road and threatening the surrounding structures. The design also considers the nearby trees, with efforts to reduce the risk of damage from strong water flows.

These measures are intended to work together: strengthening vulnerable sections, guiding excess water and creating enough space for it to pass through safely.

The investment benefits more than the school. By improving a shared access route and managing water flow around it, Arusha Science is also contributing to the safety and accessibility of neighbouring communities.

From the construction work carried out a month ago to the improved bridge area today, the transformation reflects an important part of our responsibility to the community. At Arusha Science, we believe preparedness starts before the rains arrive. A safer school also means a safer and more accessible community.





ALUMNI CORNER

ROBERT MBUKI'S JOURNEY

A Foundation for Greatness

When Robert Lucas Mbuki joined Arusha Science back in 2020, he was stepping into more than a new school; he was becoming part of its very first class.

Today, after graduating in Petroleum and Gas Engineering from the University of Dar es Salaam, earning the prestigious Samia Scholarship and beginning his professional journey as an Associate Auditor at KPMG, today, Robert reflects on the experiences that shaped him.

From the school's early days to his continued involvement in mentorship and practical learning, his journey is a reminder of what can grow from a strong foundation.

1. Tell us a little about yourself. Who is Robert Mbuki beyond his academic and professional achievements?

My name is Robert Lucas Mbuki. I would describe myself as an ambitious, self-driven and curious individual who enjoys learning, solving problems and taking on new challenges. I value teamwork, personal growth and continuous learning. Beyond my academic and professional pursuits, I am passionate about education and mentorship, and I believe in using the knowledge and experiences I gain to create opportunities and make a positive difference in the lives of others.

2. What stands out most from your experience as a pioneer student at Arusha Science?

Being part of Arusha Science's first class meant that we were not just joining a school; we were becoming part of something new. There was excitement, but also a sense of responsibility because we were among the first students who would experience and contribute to its development.

One of our main challenges was adjusting to a new environment where systems, traditions and school culture were still being established. We had no previous student generation to guide us, so we learned and grew together with the school. What made our class special was our unity, determination and willingness to support one another. Looking back, I realise that we helped establish the school's academic culture and set standards for the students who came after us. It is something I am genuinely proud of.

3. You graduated in 2022 as the top-performing student in your class. What do you remember most about that achievement, and what kind of student were you?

Graduating in 2022 was one of the most memorable moments of my academic journey. I was honored to be recognized as the best-performing student in my class and to receive awards for outstanding performance in Physics, Advanced Mathematics and Chemistry. It was rewarding because it reflected the hard work, discipline and commitment I had invested in my studies.

I was a curious, focused and ambitious student, particularly when it came to Mathematics and science-related subjects. I enjoyed challenging myself and understanding how things worked rather than simply memorizing what was taught. My time at Arusha Science strengthened this attitude and taught me that success is not achieved through intelligence alone. Discipline, consistency and the willingness to learn from others are equally important.

4. After Arusha Science, you received the Samia Scholarship and proceeded to the University of Dar es Salaam. Tell us about that transition, your choice of engineering and what the experience taught you.



My performance in the ACSEE national examinations earned me the Samia Scholarship, which covered my educational and related expenses and allowed me to focus on my studies at the University of Dar es Salaam, where I pursued a Bachelor's degree in Petroleum and Gas Engineering.

My interest in Mathematics and Science, as well as understanding how things work, influenced my choice of engineering. I was drawn to the field because of its practical application in solving real-world challenges, particularly in the energy sector. University taught me that engineering goes beyond theories and examinations. It is about understanding problems, testing ideas and developing practical

solutions. The scholarship was also a reminder to use opportunities wisely and, eventually, give back to society.

5. Beyond your academic journey, you are a co-founder of Numbers Foundation. What inspired this initiative, and what role do you play?

Numbers Foundation is a Tanzania-based organisation focused on improving Mathematics education and creating learning opportunities for young people. My involvement comes from my passion for Mathematics and my belief that every student deserves an opportunity to develop their abilities.

I serve as an Educational Mentor and Mathematics Olympiad Supervisor, helping students strengthen their mathematical skills, confidence and interest in learning. We aim to address challenges such as limited access to learning support, mentorship and opportunities beyond the classroom, particularly in underserved communities.

Balancing these responsibilities with academics and other commitments has taught me the importance of discipline, planning and teamwork. I have learned that leadership is not simply about holding a position; it is about taking responsibility, supporting others, listening to different ideas and working towards a common goal.

6. You have remained connected to Arusha Science and continued working with Prof. Nuhu Hatibu after graduation. How did this relationship develop, and what have you learned from him?

My continued involvement with Arusha Science and Prof. Hatibu comes from the strong foundation and relationship established during my time as a student. After graduation, I remained connected to the school through different initiatives, particularly the Science In To Use Project, where we applied the knowledge gained through our PCM combination, especially Physics, Chemistry and Advanced Mathematics, to practical situations. I have also returned to support teachers in mentoring and teaching different subjects.





Working with Prof. Hatibu has taught me the importance of practical learning, innovation and taking initiative. I have come to understand that knowledge is most valuable when it can be applied to solve real problems. What stands out most about him is his commitment to education and his belief in young people. He focused not only on our academic performance but also on building our character, confidence and responsibility.

I also learned the value of discipline, teamwork and using education to contribute positively to society. I sincerely appreciate his guidance, his belief in the opportunities and us he has continued to provide even after graduation. I will always value these things.

7. What makes you proud to be an Arusha Science alumnus, and what advice would you give the current students?

I am proud to have been part of Arusha Science's first class and to see how far the school has grown. Being an alumnus means belonging to a foundation that shaped my academic and personal journey.

My advice to students is to believe in yourselves, take your studies seriously, develop good study habits and make use of the opportunities around you. Seek guidance from teachers and mentors, stay curious and never let your background limit your ambitions. My own journey has taught me that one achievement can open doors you never imagined.

I am grateful to my former teachers and the entire school community for their guidance and support. I hope we, as alumni, can continue supporting current students and contributing to the school and society. I will always be proud to be part of Arusha Science.



Quick Fire

Early bird or night owl?
- Early bird.

Books or documentaries?
- Documentaries.

Mathematics or Physics?
- Mathematics.

Classroom learning or practical experiments?
- Practical experiments.

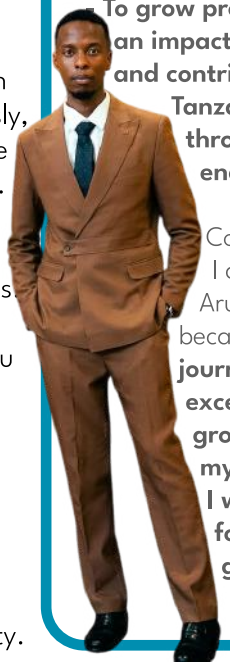
One word that describes Robert today?
- Composure.

One person who has greatly influenced your journey?
-My mother.

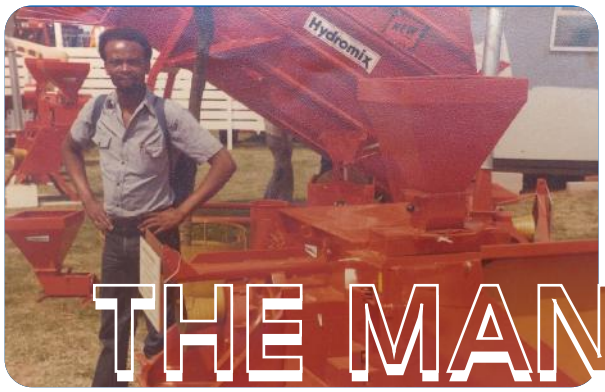
One thing you miss most about boarding school?
- The friendships and the experience of growing and learning together.

One engineer or scientist you would love to have dinner with?
- Nikola Tesla.

One dream you are determined to achieve in the next five years?
- To grow professionally, become an impactful leader in my career and contribute meaningfully to Tanzania's development through sustainable energy development.



Complete this sentence: I am proud to be an Arusha Science alumnus because...**It is where my journey of academic excellence, personal growth and discovering my potential began, and I will always be grateful for the foundation it gave me.**



THE MAN BEHIND THE VISION

There are many ways to tell the story of a leader. You can speak about the positions they have held, the institutions they have built, the milestones they have achieved and the lives they have touched. But sometimes, the most meaningful story is told by the people who experience that leadership every day.

A glimpse of Prof. Nuhu Hatibu through the eyes of the people who work alongside him

At Arusha Science, Professor Nuhu Hatibu is known as the founder and visionary behind the school. An excellent engineer, professor, educator and advocate of practical, science-based learning, he has dedicated much of his life to creating opportunities for others through education and agriculture engineering.

Beyond his professional achievements, he is also an amazing husband, exceptional father, supportive brother, caring son and a fun grandfather. As the firstborn in a family of nine children, leadership and responsibility have been part of his journey from an early age.

Having served as a lecturer, he has always been a teacher at heart. His influence is not limited to classrooms or formal lessons. It can be found in conversations, advice, challenges, opportunities and the example he sets for those around him. For the people who work with him, his leadership is often reflected in the lessons they learn, the confidence they gain and the opportunities they are given to grow.

For his birthday, members of the Arusha Science family shared personal messages of appreciation and gratitude. Rather than simply wishing him well, we felt their reflections offered something more meaningful: a chance to understand the man behind the vision through the eyes of the people who work alongside him, learn from him and experience his leadership first-hand.

A LEADER WHO HELPS PEOPLE GROW....

For some members of staff, Prof. Hatibu's influence is most visible in the opportunities he creates and the confidence he helps others build.

Mariam Shabani Omari, a member of the school's cleaning staff, expresses her gratitude for the trust and opportunity she has received. To her, working at Arusha Science is more than employment; it is an honour, a source of hope and an opportunity to build a better life for herself and her family. Her message is a reminder that the impact of leadership is not measured only through professional titles, but also through the opportunities that make a difference in people's everyday lives.

Sophia Matsaury, the school librarian, has been part of Arusha Science for six years. She began her journey at the school as a cleaner and has since grown into her current role. She describes Prof. Hatibu as more than a boss, recognizing him as an important part of her journey of growth, learning and building her life. Her message is a heartfelt thank-you for the opportunity to learn, grow and remain part of his team.



A similar appreciation comes from Mrs. Nai Maida, the school bursar, who reflects on five years of working with him. She remembers the pressure of learning her responsibilities when she first started, but what stayed with her was his patience. When she made mistakes, he took time to correct, guide and advise her, always giving her another opportunity to improve. She credits his guidance with helping shape the professional she has become.

For Juliana Mwenda, our amazing Economics teacher, her growth come through trust and responsibility. She appreciates the guidance she has received in her teaching career, as well as opportunities to prepare school project reports and conduct analysis. These responsibilities have helped her develop new perspectives, strengthen her professional skills and grow beyond classroom teaching.

Although Prof. Hatibu is the founder of Arusha Science, his influence on teaching remains central to the school's identity. **His colleagues describe a leader who encourages them to rethink how students learn and how education can be made more practical**

Madam Sara Nyangasa, the school's Chemistry and Biology Laboratory Technician, captures this beautifully:

"Today is a special day to celebrate a remarkable person whose contribution goes beyond academic excellence, mentorship and shaping the lives of those privileged to learn under his guidance."

She goes on to appreciate his unique way of teaching, guiding and challenging others, describing the opportunity to learn under his guidance as a privilege. Her reflections speak to a leader whose lessons extend beyond academic knowledge to discipline, critical thinking and personal growth.

Mr. Majigwa, a Mathematics teacher, says Prof. Hatibu's commitment to competency-based, innovative and technology-driven education has inspired him to become a more creative and reflective teacher. He appreciates being challenged to move beyond traditional teaching and make Mathematics practical, meaningful and transformative.

Teacher Majaliwa, an AMALI teacher who recently joined the school, sees this vision taking shape in the classrooms and workshops everyday. Through project-based learning, students build projects, develop practical skills and learn to use technology to solve real problems. He is grateful to be part of an educational vision that prepares young innovators to contribute to society and move Tanzania forward.

Mr. Omary Jalali, the school's Geography teacher, shares the same appreciation. He believes students grow best by doing, rather than relying only on theory or memorization. He says Prof. Hatibu's example has influenced his own teaching and strengthened his belief in project-based learning, technological innovation and competence-based education.



Mr. Kastirio Mgwao, a Physics teacher, also highlights the importance of lifelong learning, STEM mentorship, self-confidence, teamwork, accountability and collaboration.

Mr. January, the school's Computer Science teacher, adds a memorable reflection on the lessons of leadership and mentorship:
"Through your mentorship, I have learned that not every challenge is an error."

And in a short but powerful reflection, Mr. Msangi, SITU Coordinator, describes the kind of teacher he sees in Prof. Hatibu:

"He has been a teacher who values every idea, and creates opportunities for learning by doing."

For Mr. Ibrahim Lukumay, Prof. Hatibu's contribution represents an important investment in bringing quality education closer to Maasai children. He honours him with the Maasai title Olaigwanani, describing his contribution as worthy of a Maasai Nobel Prize.

The impact of this vision is also personal for Dionis, a former Arusha Science student who has returned to serve as the school's Computer Science and ICT Coordinator. Having once walked through the school's doors as an Advanced Level student, he now has the privilege of contributing to the same institution that helped shape his journey.He describes Prof. Hatibu as more than an institution builder: he is a builder of people, dreams and possibilities. However, Not every lesson in leadership comes through a formal meeting or a classroom.

Sometimes, it is found in the way people are treated, the encouragement they receive and the example set each day. Rafael Michael, the school's Head Chef, captures this idea in a simple reflection: **"Leadership is not just about holding a title; it is about the ability to inspire and touch the lives of others."**

Madam Fatuma, our Biology teacher, appreciates the vision, wisdom and guidance that continue to shape people into better versions of themselves. Mr. Athumani Adinani, the school's Patron, similarly recognizes Prof's exceptional leadership, dedication and commitment to excellence.

Other colleagues share their appreciation in their own ways. Mr. Mollel, a Biology teacher, highlights his commitment to project-based learning and nurturing confidence, competence and excellence. Madam Faudhia, who teaches Physics and Math, admires his energy, kindness and tireless dedication, while Madam Leath, a Biology teacher, expresses gratitude for his leadership and continued inspiration.

Mr. Mbura, the Academic Master, appreciates his mentorship and commitment to the professional growth of staff. While Teacher Alestides describes his wisdom as a daily source of inspiration. Without forgetting Miss Happyness, our Chinese and English teacher, celebrates his exceptional leadership, wisdom and kindness. Well this is what she actually said;-

感谢您的卓越领导、智慧与善良。
愿您健康长寿，幸福常伴，事业蒸蒸日上！



After hearing the reflections of your colleagues and former students, we hope you see just how deeply your leadership has touched the Arusha Science community. Your vision has shaped careers, inspired young minds and created opportunities that continue to make a difference. As we celebrate you, we hope you know that your impact goes far beyond the school you founded; it lives on in the people you have inspired.

Happy Birthday, Prof. Nuhu Hatibu!

SCIENCE EXPLAINED

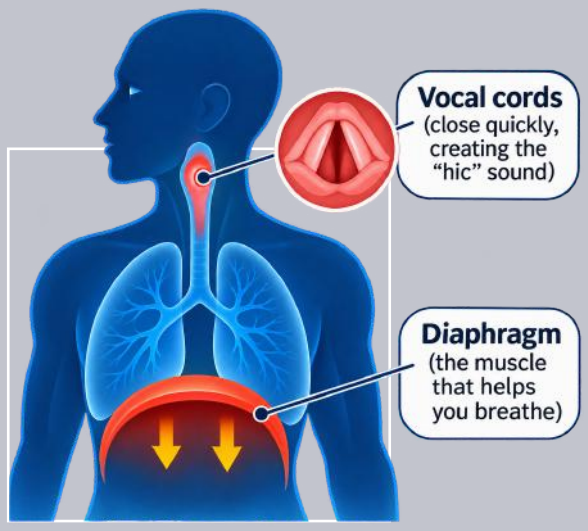
WHY DO WE GET HICCUPS?

Have you ever started hiccupping and found that you couldn't stop?

Hiccups happen when your diaphragm, the muscle that helps you breathe, suddenly contracts without warning. This causes you to take in air quickly, but your vocal cords close almost immediately, producing the familiar "hic" sound.

Eating too quickly, drinking fizzy drinks, sudden excitement or even laughing can trigger hiccups.

Most hiccups disappear on their own after a short time.



WHY DOES POPCORN POP?

How does a tiny, hard popcorn kernel suddenly turn into a fluffy white snack?

Every popcorn kernel contains a small amount of water trapped inside a hard outer shell. When heated, the water turns into steam, building pressure inside the kernel.

Eventually, the pressure becomes so strong that the outer shell bursts. The hot starch inside expands rapidly and cools into the familiar fluffy popcorn shape. Interestingly, not all corn can pop. Popcorn varieties have a special outer shell that can hold enough pressure for this process to happen.

So Basically, every piece of popcorn is a tiny explosion powered by steam!



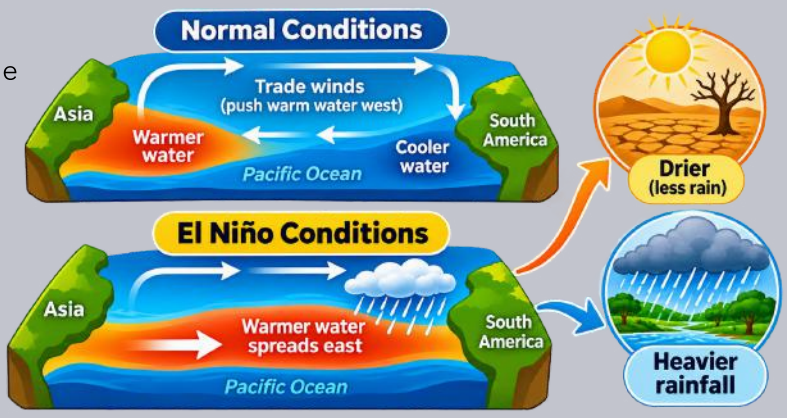
WHAT IS EL NIÑO, AND WHY DOES IT AFFECT OUR WEATHER?

Have you ever wondered why some years bring unusually heavy rains while others are much hotter and drier? One of the reasons can be a climate pattern called El Niño.

El Niño is a natural climate pattern that occurs when the surface waters of the central and eastern Pacific Ocean become warmer than usual. This warming weakens normal trade winds and changes how heat and moisture move through the atmosphere, influencing rainfall and temperatures around the world.

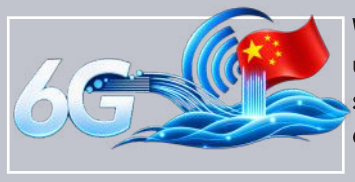
In Tanzania, El Niño can contribute to heavier-than-usual rainfall in some areas, while other places may remain hot and dry. Rain does not arrive everywhere at once, which is why some regions may receive showers while others are still waiting.

The amazing fact: **A change in Pacific Ocean temperatures can influence weather patterns across the entire world, including East Africa!**



SCIENCE & TECHNOLOGY NEWS

No. 1 - China Is Already Showing the World What 6G Could Look Like



We have only just started using 5G widely. So why are scientists already working on 6G? At the 2026 World Internet Conference in Wuzhen, China, researchers and technology companies showcased emerging technologies, including sixth generation mobile communications (6G).

6G is expected to go beyond faster internet. Researchers are exploring how future networks could connect people, vehicles, robots, satellites and intelligent devices in ways that make communication more seamless.

The exhibition also featured satellite internet and more than 100 intelligent robots. Although 6G is still under development, the technologies being demonstrated offer a glimpse of how connected our future could become

The big question:
What could we achieve if almost everything around us could communicate instantly?

No. 2 - African Seaweed Could Become the Next Big Biotechnology Opportunity



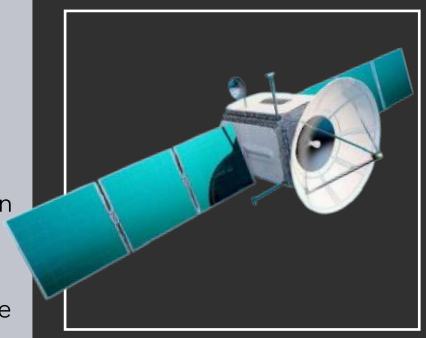
Tanzanian researcher Grace Bosco is exploring how biotechnology can transform underutilised seaweed into valuable products while creating opportunities for coastal communities.

Her work, highlighted by South Africa's Centre for Epidemic Response and Innovation on October 30, 2026, is part of a wider effort to strengthen African biotechnology and support innovation led by local researchers.

Seaweed is already used in food, cosmetics, agriculture and other industries. Through biotechnology, scientists can investigate ways to extract useful compounds and develop new products with greater value.

The big question:
What other valuable products could African scientists discover in resources that are already growing around us?

No. 3 – Kenya Opens a Laboratory That Turns Satellite Images into Solutions



What if students could use information from space to solve problems on Earth?

On November 3, 2026, Kenya launched an Earth Observation Innovation Laboratory at Taita Taveta University.

The laboratory gives students, researchers and technology startups access to satellite data, mapping tools and digital technology to develop practical applications.

Satellite information can help farmers monitor crop conditions, scientists track environmental changes, communities prepare for floods and planners understand how cities are growing. The facility will also provide technical training, certification and support for developing new applications. It is part of Kenya's wider effort to turn space technology into practical solutions for everyday challenges.

The big question:
What could students in Africa create if they had access to the same satellite information used by scientists around the world?

No. 4 – October 2026 Was the Warmest October on Record

According to the Copernicus Climate Change Service, October 2026 was the warmest October ever recorded, with global temperatures reaching 1.75˚C above pre-industrial levels.



Ocean temperatures also reached record highs for October. A developing El Niño contributed to the warming, alongside long-term human-caused climate change.

The big question:
How can science and innovation help us adapt to a warming planet?

ARUSHA SCIENCE



CONFIDENCE & COMPETENCE FOR EXCELLENCE