JOHN OUMA OTIENO



Head of ICT & Computing Department | ICT, Computer Science & Mathematics Teacher

Pearson Edexcel International GCSE • Cambridge • Data-Informed Assessment

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Based in: Djibouti • **Nationality:** Kenyan • **Languages:** English (C1), Kiswahili, Luo

Registration: TSC Kenya No. 1150066 • TVETA Trainer Licence No. TVETA/T2511810

PROFESSIONAL SUMMARY

TSC-registered and TVETA-licensed **ICT, Computer Science and Mathematics teacher** with **over 8 years of teaching experience**, including **4+ years in international schools** in Djibouti, Somaliland and Somalia. Holds a **BSc in Mathematics & Computer Science (Pure Mathematics option)** and a **Postgraduate Diploma in Education (Credit)**, giving degree-level depth in both subjects offered at International A Level. Teaches Pearson Edexcel International GCSE ICT (4IT1), iLowerSecondary and iPrimary Computing, and has taught IGCSE Mathematics and Cambridge programmes.

Currently **Head of the ICT & Computing Department**. Formal lesson observation scores have risen from **84% to 87% to 90%** (2024–2026), and the mean pass rate across Years 4–10 rose **18 points in a single term**. Experienced in writing Pearson-style examinations and mark schemes, analysing results against Pearson grade boundaries, and has marked **8,000+ national examination scripts** as a KASNEB examiner. English: **IELTS Academic 7.5 (CEFR C1)**.

SUBJECT KNOWLEDGE FOR INTERNATIONAL A LEVEL

- **Information Technology:** degree study in programming and object-oriented programming, data structures & algorithms (B), database systems (B), systems analysis & design (A), operating systems (A), network design & implementation (B), web and mobile application development (B), computer graphics (A), artificial intelligence and machine learning. Further training in IT customer support (Cisco), applied data science (WorldQuant University) and data protection & privacy (Strathmore University).
- **Mathematics, Pure Mathematics and Further Mathematics:** Calculus I–III, Linear Algebra I–II, Real and Complex Analysis, Vector Analysis, ODEs and PDEs, Numerical Analysis (A), Probability & Statistics I–II, Discrete Mathematics, Classical Mechanics, Operations Research, Number Theory, and abstract algebra (Group, Ring and Field Theory, with Field Theory at A). Methods of Teaching Mathematics (A) in the PGDE.
- **Assessment:** sets Pearson-style papers, CATs and mark schemes for Years 4–10; grades and tracks results against Pearson boundaries; national examiner experience with KASNEB (2018–2023).

KEY ACHIEVEMENTS

- **Pearson Edexcel International GCSE ICT (2025), Amaano: 100% pass rate** (all 5 candidates at grade 4+), including grades 8 and 7.
- Formal lesson observations improved every year: **84% (2024), 87% (2025) and 90% (2026)**.
- **Head of ICT Department** at three international schools: Rays Modern Academy (2022–2024), Amaano Day and Boarding School (August 2024 to July 2026) and International Maarif School (August 2026 – present).
- Designed **"SunCharge"**, a Year 10 cross-software project for International GCSE ICT (4IT1) Paper 2, and built a **results-analysis workbook** tracking every learner from Year 1 to Year 10.
- Recognised twice by the Amaano High School Principal: organiser of the **2024–25 Academic Competition** and **IT Specialist** for the 2025 – 26 competition

CORE COMPETENCIES

- **Curriculum delivery:** Pearson Edexcel iPrimary and iLowerSecondary Computing, International GCSE ICT (4IT1) and Computer Science, IGCSE Mathematics, and Cambridge English (A1–B2)
- **Planning:** schemes of work, medium-term plans and lesson plans aligned to curriculum and examination standards
- **Assessment:** Pearson-style examinations, CATs and marking schemes; formative and summative assessment; results tracking to target intervention
- **Coding and robotics:** Python, Scratch, computational thinking, and robotics with VEX IQ and VEX V5
- **Resource writing:** original workbooks, project-based tasks and differentiated materials for mixed-ability classes
- **Inclusion and wellbeing:** differentiation, SEN support, behaviour management, safeguarding and child protection
- **Technical support:** ICT lab management, hardware and software maintenance, network troubleshooting
- **Leadership:** departmental leadership, colleague mentoring, and planning school-wide academic events

PROFESSIONAL EXPERIENCE

Head of ICT & Computing Department and Computing Teacher — 2026 – Present

International Maarif School – Djibouti

- Lead the ICT & Computing Department and teach every year group from Year 1 to Year 10
- Teach Pearson Edexcel International GCSE ICT (4IT1) in Year 10, and iLowerSecondary and iPrimary Computing in Years 1–9, and also part of the Exams Committee.
- Set Pearson-style examinations, CATs and mark schemes for Years 4–10, and moderate results across the department
- Built a results-analysis workbook that grades on Pearson IGCSE boundaries and is used to target intervention
- Designed the "Djib Blue" 4IT1 Paper 2 project and planned the equipment for a VEX IQ/V5 robotics, coding and AI lab

Head of ICT & ICT / Computer Science Teacher — 2024 – 2026

Amaano Boarding & Day School – Hargeisa, Somaliland

- **Pearson Edexcel International GCSE ICT (2025):** all 5 candidates passed (100% at grade 4+), including 7 and 8.
- Planned and taught Pearson Edexcel ICT to Year 9, Year 11 and Form 1, Form 2 and year 7 classes
- Restructured the department's ICT curriculum and brought Python, coding and computational thinking into lessons
- Used data-informed assessment and differentiation to support mixed-ability and SEN learners; led staff CPD on digital pedagogy and assessment
- Lesson observations: **84%** (Year 9 Excel, Oct 2024), **87%** (Year 11 Transactional Data, Aug 2025), **90%** (Form 1 Introduction to Python, Apr 2026)
- Planned and ran the 2024–25 Academic Competition and served as IT Specialist for the 2025–26 competition

English Instructor (Cambridge & Pearson Edexcel) — 2024 – 2026

Tropical Institute College – Hargeisa, Somaliland

- Taught Cambridge English from A1 to B2 (YLE Movers, A2 Key, B1 Preliminary, B2 First), using diagnostic assessment to prepare learners for international exams

ICT & Mathematics Teacher, Head of ICT Department and ICT Lab Technician — June 2022 – July 2024

Rays Modern Academy – Qardho, Puntland, Somalia

- **Head of the ICT Department**, leading ICT teaching and resources across the school
- Taught IGCSE ICT and Mathematics to Grades 5–11, with lesson planning, progress tracking and student mentoring
- As **ICT Lab Technician**, ran the lab day to day: hardware and software maintenance, network troubleshooting, installation and updates, and equipment security
- Set up coding clubs and STEM activities, and supported colleagues through collaborative lesson planning

Earlier Experience – Kenya — 2017 – 2023

- **Technical Trainer, ICT & Mathematics**, Butula Technical & Vocational College (Teaching Practice) (2023)
- **National Examiner – Script Checker**, Kenya Accountants & Secretaries National Examinations Board, KASNEB (2018–2023): marked and checked 8,000+ scripts
- **Secondary Teacher, Mathematics & Computer Studies**, Busiada Girls Secondary School (2019)
- **Primary Teacher, Mathematics & Science**, Ramunde Primary School (2017–2018)

EDUCATION

Postgraduate Diploma in Education (PGDE) – Credit — **conferred November 2023**

KCA University, Kenya **2021 – 2023**

- Methods of Teaching Mathematics (A), Teaching Practice (A−), Educational Administration & Management (A−), Curriculum Development, Educational Measurement & Evaluation, Educational Psychology, Methods of Teaching Computer Studies

BSc Mathematics & Computer Science (Pure Mathematics option) — **conferred December 2018**

Technical University of Mombasa, Kenya **2014 – 2018**

- **Computing:** programming, object-oriented programming, data structures & algorithms, databases, systems analysis & design (A), operating systems (A), computer graphics (A), networks, web and mobile application development, artificial intelligence, machine learning
- **Mathematics:** calculus, linear algebra, real & complex analysis, abstract algebra, field theory (A), numerical analysis (A), probability & statistics, discrete mathematics, operations research

Kenya Certificate of Secondary Education (KCSE) – Mean Grade A− — **2010 – 2013**

Musingu Boys High School, Kakamega

- Mathematics A; English, Kiswahili and Physics A−

REGISTRATION, LICENSING & ENGLISH PROFICIENCY

- **Registered Teacher, Teachers Service Commission (TSC), Kenya:** Registration No. 1150066 (certificate issued January 2026)
- **Licensed Trainer, TVETA Kenya:** Mathematics & Computer Science, KNQF up to Level 6, Licence No. TVETA/T2511810, valid until December 2028
- **IELTS Academic (June 2026):** Overall 7.5, CEFR C1 (Listening 7.0, Reading 7.5, Writing 7.0, Speaking 8.5)

PROFESSIONAL DEVELOPMENT

- **Pearson iPLS CPD (August 2026), 12 CPD hours:** Raising Attainment in Writing, Enquiry-Based Science, Behaviour Management, Teaching Online Effectively
- **Cisco IT Customer Support**, Cisco Networking Academy (2025)
- **Applied Data Science Lab**, WorldQuant University (2024–2025)
- **Data Protection & Privacy**, Strathmore University (2024)
- **Basic First Aid**, Kenya Red Cross Society (2018)
- Ongoing professional learning in safeguarding, inclusive education and digital pedagogy

LEADERSHIP & SERVICE

- **Class Representative**, BSc Mathematics & Computer Science, Technical University of Mombasa Students' Association (2017/18)
- **Member, TUM Red Cross Chapter and the red cross society member** (2014–2018): Certificate of Merit for first aid, peer education, community volunteering and blood donation drives. First Aid trainings. Beach life guard.
- **Kenya Karate Federation** National Club Championship participant (2015). Former Captain of the Musingu High School Karate Club
- **Peer Counsellor and Form 4A Representative**, Guidance & Counselling, Musingu High School (2012/13)

ADDITIONAL INFORMATION

- Experienced in international, multicultural school communities in Kenya, Djibouti, Somaliland and Somalia
- Strong commitment to safeguarding, student welfare and professional conduct

REFERENCES

Available on request.