

Createch

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Createch

Overview

Who we are

We are a multidisciplinary educational studio helping Tanzanian schools modernize learning delivery, combining intelligent LMS, NECTA-aligned practice workflows, offline infrastructure for low-connectivity environments, and tangible learning tools that improve understanding and retention.

Tanzanian students deserve more than outdated textbooks and overcrowded classrooms. Schools with connectivity need intelligent platforms that provide instant feedback, adaptive practice, and resources no single teacher could deliver alone. Schools without reliable internet need infrastructure that brings the same quality of learning — offline, on-site, no compromises. And every classroom needs tangible tools that turn abstract concepts into something students can hold, build, and understand.

This is why Createch exists.

Our Goals

1. Improve Learning Outcomes: Everything we build works toward one purpose: better education. Our LMS, offline servers, and fabrication tools aren't separate products — they're a unified system designed to move students from memorization to understanding, from passive learning to active engagement.

2. Manufacture Locally, Solve Locally: We produce our educational fabrication tools right here in Tanzania using FDM 3D printing. This isn't just about cost savings — it's about building local manufacturing capacity, nurturing homegrown talent, and creating solutions shaped by the problems we see firsthand

3. Differentiate Through Integration: Createch offers a unified approach — combining intelligent software, offline infrastructure, and hands-on fabrication into one cohesive system.

- Createch Learn
- Enlight Kits
- Createch Fab

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Our

Services

Createch Learn

A curriculum-aligned learning platform with AI-powered feedback, intelligent tutoring, simulations, videos, digital books, and NECTA-first practice experience built for exam readiness

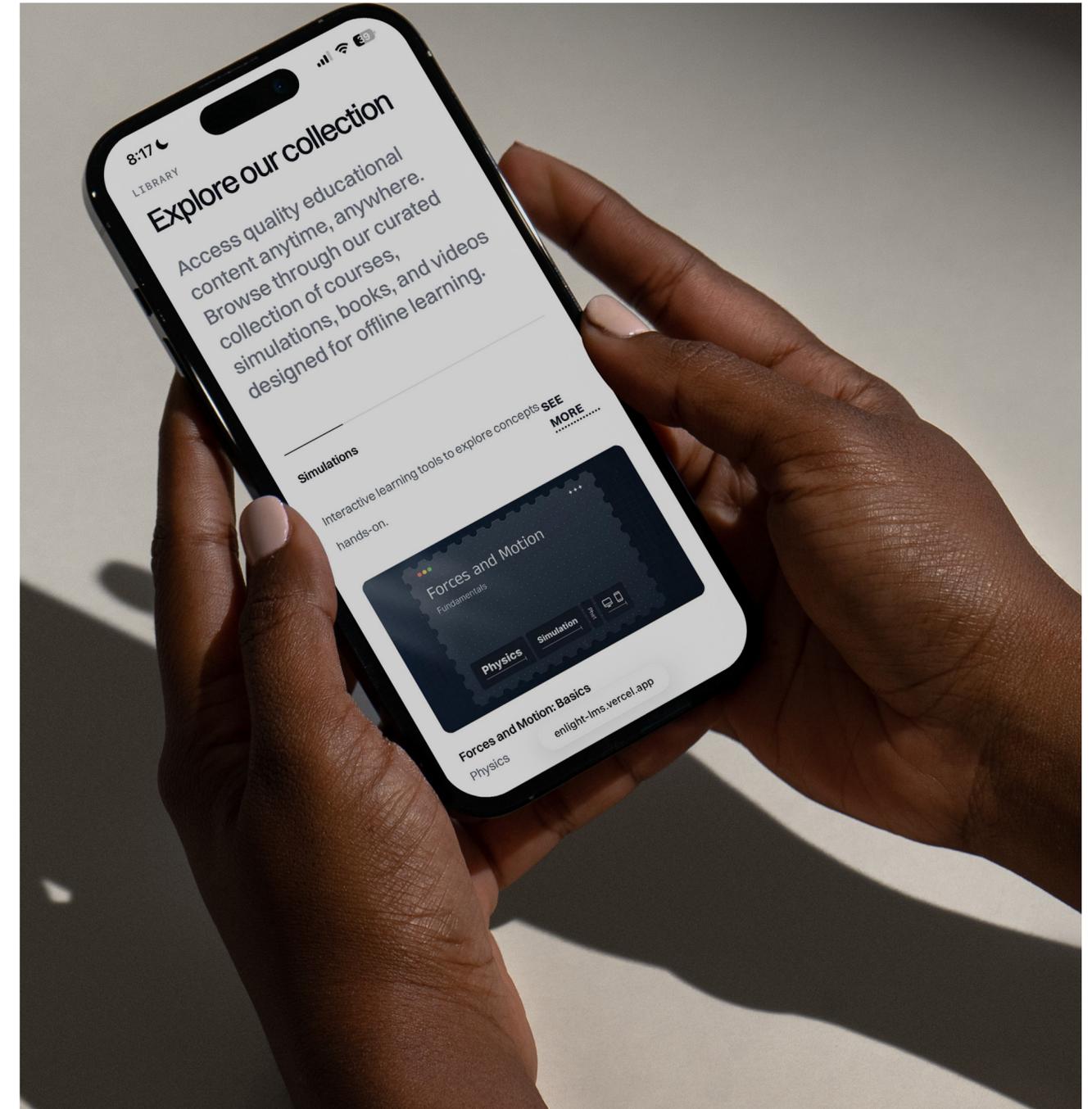
The Problem: Digital learning platforms exist. Most are built for schools with reliable internet, and curricula written somewhere else. They don't fit Tanzanian classrooms. Teachers need resources aligned to NECTA standards. Students need feedback that actually helps them improve, not just a score. Schools need systems that work with what they have.

What we Offer: A learning platform built specifically for Tanzanian secondary education.

Digital Library: Terabytes of curriculum-aligned content accessible on any device. Textbooks, reference materials, video lessons, interactive simulations, and past examination papers — all organized by subject, form level, and NECTA syllabus.

NECTA Past papers: Papers are presented exactly as they appear in NECTA examinations. Same structure, same timing pressure, powered by AI that transforms practice into learning. A score tells you what happened. Feedback tells you why. Our system breaks down each response: what was correct, what was incomplete, what was misunderstood. It highlights missing keywords, identifies conceptual gaps, and suggests how to structure a stronger answer next time. This is what a teacher would write if they had unlimited time for every student.

Feynman Technique Engine: Students explain concepts back to the AI in their own words - It evaluates comprehension through dialogue, asking follow-up questions, pressing on vague claims, and exposing gaps in understanding. If you can't explain it simply, you don't understand it yet. Active recall meets conversational AI — a study partner that never lets you off easy



Enlight Kits



Portable offline infrastructure that brings the complete digital learning experience to schools without reliable connectivity. A single server connects 100+ devices through local WiFi 6, delivering terabytes of educational content — no internet required.

The Problem: Internet-dependent platforms don't work where there's no internet. 60% of Tanzanian secondary schools have limited or no connectivity. These schools need infrastructure that works without relying on infrastructure that doesn't exist.

What we Offer: A learning platform built specifically for Tanzanian secondary education.

Content Library

Complete NECTA-aligned curriculum from Form 1 through Form 4. Digital textbooks and reference materials for core subjects. Past examination papers with marking schemes. Video lessons from experienced Tanzanian educators. Interactive simulations for science subjects.

Hardware Specifications: WiFi 6 on 5GHz band for fast, stable connections. Supports up to 100 simultaneous device connections. Up to 5 hours of battery operation for uninterrupted learning. Terabytes of pre-loaded educational content. Solar-compatible for extended off-grid operation. Compact, portable form factor. Built for harsh conditions and frequent transport.

Technical Specifications: Wireless runs on WiFi 6 (802.11ax) at 5GHz. Capacity handles 100+ simultaneous device connections. Battery provides up to 5 hours of continuous operation. Storage holds 2TB+ of educational content. Power options include integrated battery, standard AC charging, and solar compatibility. Subjects covered include Mathematics, Physics, Chemistry, Biology, English, Kiswahili, History, and Geography. Full NECTA alignment from Forms 1–4. Every deployment includes installation, training, and ongoing support.

Createch Fab

Educational fabrication tools that make abstract concepts tangible. 3D-printed models, lab kits, and hands-on manipulatives — locally produced, curriculum-mapped, and built to survive daily classroom use.

The Problem: 70% of Tanzanian schools lack functional science laboratories. Students learn about molecular structures, human anatomy, and geometric forms from diagrams on a chalkboard. They memorize what they should be holding. Teachers explain what they should be demonstrating.

What we Offer: Physical learning tools manufactured in Tanzania for Tanzanian classrooms.

3D-Printed Models: Anatomical models for Biology. Molecular structures for Chemistry. Geometric solids for Mathematics. Crystal lattices, electrical circuits, topographical forms. Students hold what they're learning. Teachers demonstrate what they're explaining. Concepts move from the board into students' hands.

Locally Produced: Manufactured in Tanzania using FDM 3D printing. Faster replacement, lower costs, shorter supply chains. Designs evolve based on direct feedback from teachers — not assumptions made overseas. Local production means local expertise, local jobs, and solutions shaped by the problems we see firsthand.

What's Available: Biology models including heart, lung, eye, ear, and skeletal components. Chemistry models covering molecular structures, atomic models, and bonding demonstrations. Physics kits for circuits, optics, and mechanics. Mathematics manipulatives for geometry, fractions, and spatial reasoning. Custom fabrication available for specific curriculum needs.



Thank you