

The South African education system faces many challenges which include a shortage of teachers, under qualified teachers and poor infrastructure in especially rural communities. In many schools, less than half of the official curriculum is reportedly being covered by the end of the year and fewer than half of the officially scheduled lessons are being taught. National senior certificate results indicates a poor performance of school leavers in mathematics and physical science, in particular, which excludes these youth from critical careers such as technology or engineering.

## Our Vision

We aim to provide a measurable, accountable and impactful way for your company to invest their SED budget in addressing South Africa's educational challenges. This is done by using technology to put age - and skill level appropriate as well as curriculum-compatible math and science content in the hands of learners, wherever they are.

## Client

Any company looking to make a real impact within youth education, but with a specific focus on mathematics and physical science.

## Our Approach

A platform is provided which aims to overcome key challenges to offer scalable, innovative and cost-effective solutions. By giving students a fully app-enabled device, we can bring the best educators in the world to rural children without the need for any additional infrastructure expenditure.

The App provided does away with the traditional style of chapter-by-chapter text explanations, worked examples and exercises. Instead, the learning path is split into three parts:

- **Part A. Explanation:** Top educators present well-structured videos to explain each concept, learners also gain a foundation as they begin each new section on the App.
- **Part B. Exercises:** These are directly linked to the video content, and lets learners attempt each problem. After they've completed an exercise, they can look at a written memo that gives a step-by-step explanation. The written memos are supported by video memos that promote self-teaching and proactive problem-solving.
- **Part C. Assessments:** Each learner's knowledge and understanding is tested while the AI algorithm comes into play. Once a learner has completed an exercise, they can work through the assessment. As soon as they have completed the assessment, they will receive a score, and a customised learning pathway is created.

The App therefore creates a virtuous circle of learning and improvement and ensures that learners spend their study time as productively as possible. The App has been created to be available offline and is supported by most devices and operating systems.

### Benefits

- Sponsors can track the progress of students at all times.
- Achievement of SED points on the BEE scorecard.
- Reaching targeted beneficiaries in an impactful manner.
- Providing real life opportunities to school children through improved mathematics and science results.

### Deliverables

- Hundreds of hours of video content explaining concepts, thousands of individual exercises with written answers, video memorandums, and online tutors to assist when additional help is needed.
- Content is pre-loaded onto an Android device which can be accessed at any time with no data connectivity requirements.
- Full monitoring and feedback to sponsors.

*“Creating Impact at Scale”*