



**SIBANYE SUPPORTS
EXCELLENCE IN MATHEMATICS
AND SCIENCE**

FACT SHEET
MARCH 2017

Sibanye is the largest individual gold producer in South Africa, and the world's fifth largest producer of platinum group metals. As a key partner in the development of communities around its operations, Sibanye fosters and maintains constructive engagement with all stakeholders in order to support its vision to deliver superior value to all of its stakeholders and ultimately for the long-term success and sustainability of the business.

Sibanye's mathematics and science programme, which is underway in the Lejweleputswa District Municipality in the Free State, was established in 2013 with the aim, ultimately, of improving competence in the subjects of mathematics and science at senior secondary schools in the area. Proficiency in these subjects is essential to finding employment and having a successful career and thus in contributing to social upliftment.

The programme has a two-pronged approach and aims to:

- improve and develop the teaching skills of mathematics and science educators
- improve understanding of and performance in these subjects by school learners in their matriculation examinations at the end of their schooling

The programme is implemented and overseen by the Kutlwanong Centre for Mathematics, Science and Technology, a non-profit organisation providing mathematics and science tuition and teacher development programmes in seven provinces. The programme was in its fourth year in 2016 and to date, has spent R7.2 million has been spent on educator development and learner support.

Around 30 mathematics and science educators, selected from schools in the area, are employed by the programme to oversee the provision of the additional lessons and tuition required in mathematics and science. Those educators selected receive ongoing professional development.

In addition, teacher development workshops are offered to the mathematics and science educators at schools in the area. In 2016, 105 teachers attended these workshops which focus on the gaps identified in learning areas in reports received by the Kutlwanong Centre at the beginning of each year from the Department of Education. Kutlwanong analyses the year-end results of learners attending its programme to assess its effectiveness.

Those Grade 11 learners participating in the programme receive an additional 16 hours each for mathematics and physical science tuition a month, while Grade 12 learners receive 26 hours additional tuition each for mathematics and physical science a month during the academic year. In addition, study materials including science kits for experiments, calculators are provided as well as basic meals for lessons held on Saturdays and school holidays.

At the start of 2016, 270 Grade 11 learners and another 270 Grade 12 learners registered for in our mathematics and science programme, having enrolled initially in 2015 as Grade 10 and Grade 11 learners. Of these 200 wrote the matriculation exams at the end of 2016. Their academic performance was boosted significantly.

"Our aim is to facilitate content mastery and we enable students to understand, practice and master an area of the curriculum before we move on. This strategy is key to Kutlwanong helping students to achieve top mathematics and science marks in matric. This also means that our students are proficient in the foundational concepts of these subjects, so they can excel at university", **Tumelo Mabitsela**, Kutlwanong CEO, said.

HIGHLIGHTS

**OF THE 2016 MATRICULATION
RESULTS FOR THE GRADE 12
LEARNERS WERE AS FOLLOWS:**

- **An overall pass rate of 96% for mathematics and 97% for physical science**
- **18 learners achieved distinctions for mathematics (between 80 and 100%) and 29 for physical science**
- **The subject average for mathematics was 55% and for physical science 57%**
- **Of the 200 Grade 12 learners on the programme, 155 were eligible for a bachelor's degree programme at a university. This means 77.5% of these Grade 12 learners achieved results that would enable them to attend tertiary education**
- **In addition, 35 learners (17.5%) were eligible for a Diploma programme at a university of technology**
- **Five learners (2.5%) were eligible for a Higher Certificate at a technical vocational education and training college**
- **Just five learners (2.5%) had incomplete results**

The Kutlwanong Centre operates at four host schools with learners from the host and feeder schools attending extra lessons at the host school. These schools are as follows:

**Host school:
Leseding Technical School
(Welkom)**

Feeder schools:

- Lebohang Senior Secondary School
- Lenakeng Secondary School
- Lephola Secondary School
- Letsete Senior Secondary School
- Lekgarietse Senior Secondary School
- Nanabolela Senior Secondary School
- Reedepark High School
- Thotagauta Senior Secondary School
- Welkom High Secondary School
- Teto Senior Secondary School

**Host school:
Phehello Senior
Secondary School
(Odendaalsrus)**

Feeder schools:

- Eldoret Secondary School
- J.C. Motumi Secondary School
- Seqhobong Secondary School
- Kutloanong High School
- Welkom High Secondary School
- Welkom Gymnasium High School
- Riebeckstad High School
- Unitas Secondary School
- Wessel Maree High School
- Edmund Rice School

**Host school:
Mamello Senior
Secondary School
(Virginia)**

Feeder schools:

- Meloding Senior Secondary School
- Reatlehile Senior Secondary School

**Host school:
Taiwe Senior
Secondary School
(Theunissen)**

Feeder school:

- Concordia High School

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