Innovation in Education

Maths Curriculum Online
Targeted learner support

Mid & end term assessments

CAPS aligned online exercises

Learner performance analysis

Mathematics Curriculum Online
MCO Exercises and assessments

• Available for grades 4, 5 & 6
• CAPS-aligned, structured weekly term programme
• Mirror the language, examples and objectives found in the Education Department workbooks and external examinations
• Are available in English & Afrikaans
• Exercises can be attempted as many times as needed
• Auto-marked immediately
• Instant results feedback to learners and educators
Online Courses - Example of the term structure

**Tweede Kwartaal**

- T2 - Week 1 - Breinreis 1 - Orden en vergelyk getalle
- T2 - Week 1 - Breinreis 2 - Faktore en veelvoude
- T2 - Week 2 - Breinreis 3 - Vermenigvuldiging
- T2 - Week 2 - Breinreis 4 - 3D voorwerpe
- T2 - Week 3 - Breinreis 5 - Meetkundige patrone I
- T2 - Week 3 - Breinreis 6 - Meetkundige patrone II
- T2 - Week 4 - Breinreis 7 - Lysimmetrie
- T2 - Week 4 - Breinreis 8 - Deling I
- T2 - Week 6 - Breinreis 9 - Deling II
- T2 - Week 6 - Breinreis 10 - Desimale breuke I
- T2 - Week 7 - Breinreis 11 - Desimale breuke II
- T2 - Week 7 - Breinreis 12 - Desimale breuke III
- T2 - Week 9 - Breinreis 13 - Kapasiteit I
- T2 - Week 9 - Breinreis 14 - Kapasiteit II
Example questions
All exercises are auto-marked immediately for feedback to learner & teacher.
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<th>State</th>
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<th>Completed</th>
<th>Time taken</th>
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<th>Q. 3</th>
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Real-time results: Per child, per question summary for teachers
Learner Performance Analysis

• Green Shoots provides analysis of the CAPS aligned term assessments to the schools & Education Department

• Analysis includes
  
  • Per child, per question achievement
  
  • Per class, per question average achievement
  
  • Per grade, per class pass & average %, performance categories
| Surname     | First name | % | 50 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| MOGAMAT    | SURAYDA    | 6A| 36 | 17| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MONIQUE    | LANCHE     | 6A| 34 | 12| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| STEPHANIE  | CHELSEA    | 6A| 44 | 22| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SHIYAA     | EDNICAH    | 6A| 36 | 15| 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SHIMANE    | VALENTINO  | 6A| 38 | 19| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| KIYAA      | MU IZZ     | 6A| 56 | 25| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANUSHKA    | DORRIANE   | 6A| 34 | 17| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| JULIAN     | MATTHEW    | 6A| 54 | 27| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| LERENZO    | VALENTINO  | 6A| 66 | 30| 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MU IZZ     | EDNICAH    | 6A| 25 | 11| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| CHELSEA    | ANDREA     | 6A| 40 | 20| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| LANCHE     | SURAYDA    | 6A| 54 | 27| 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ALFONSO    | BRENTON    | 6A| 42 | 21| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANDREA     | CRAIG JOHN | 6A| 36 | 19| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SURIYAD    | ENRICO     | 6A| 42 | 21| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BRENTON    | MOEGAMMED NUR | 6A | 76 | 38 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

**Grade: 6A**

**Learner Performance Analysis:**
Per child, per question summary
### Learner Performance Analysis:

**Per class, per question summary for each school**

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<tr>
<th>Term Assessment Term 3</th>
<th>Ave %</th>
<th>Whole numbers</th>
<th>Common fractions</th>
<th>Numeric patterns</th>
<th>Viewing of objects</th>
<th>Properties of 2-D shapes</th>
<th>Capacity/Volume</th>
<th>Analysing, Interpreting &amp; Reporting data</th>
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<td>Ave %</td>
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<td>Ave %</td>
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<tr>
<td>4B</td>
<td>Ave %</td>
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<td>Ave %</td>
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**Notes:**
- The table above summarizes the average performance of learners across different schools for various topics and question types.
- The columns represent different categories and subcategories of mathematics topics and skills.
- The rows indicate the term and school.
- Each cell contains the average percentage for that category in that term.
- The overall average is provided at the bottom of the table.
Learner Performance Analysis:
Termly per class pass & average %
Learner Performance Analysis:
Per class, per question summary
Professional Learning Communities
Maths Curriculum Online: Impact

ANA 2012/2013: Grade 6 Maths pass percentages

All 15 schools followed Maths Curriculum Online Programme for 2013

- 2012 pass %
- 2013 pass %
Maths Curriculum Online: Impact

How has MCO changed how you teach Mathematics?

Sample: 113 educators

- It has increased the number of methods I use to teach mathematical concepts: 81%
- It has made teaching mathematics more interesting for me: 80%
- It has improved my subject knowledge: 69%
- It has improved my confidence in teaching mathematics: 58%
### Annual National Assessment 2013

- ANA 2013 - Question 1 - Multiple Choice
- ANA 2013 - Question 2 - Simplify expressions
- ANA 2013 - Question 3 - Factorise
- ANA 2013 - Question 4 - Solve for x
- ANA 2013 - Question 5 - Number patterns
- ANA 2013 - Question 6 - Rate and interest
- ANA 2013 - Question 7 - Line graph
- ANA 2013 - Question 8 - Geometry
- ANA 2013 - Question 9 - Grids
- ANA 2013 - Question 10 - Area and volume
- ANA 2013 - Question 11 - Data handling - histogram
- ANA 2013 - Question 12 - Data handling - stem-and-leaf
- ANA 2013 - Question 13 - Probability
- ANA 2013 - Question 14 - Problem solving

**New for 2014**

**ANA Exam preparation & per term topic exercise package for Grade 9**
“What about my child?”

- How can learners practice Maths outside of school?
- How can parents monitor the progress of their children?

**MATHS@HOME**
AVAILABLE FOR GRADES 3, 4, 5 & 6

Immediate results for each question
Available on computer/ smartphone/ tablet
Brain Quests have increasing level of difficulty
Practice exam papers
Multiple attempts allowed
Mirrors examples used at schools
Model answers provided
Follows CAPS term structure
Learner progress tracked
Per child topic summary available

MATHS@HOME is available in English & Afrikaans
Summary

Curriculum Support

- Maths Curriculum Online
- In-school programme
- Learner performance analysis
- Teacher training & in-class support
- Principal feedback & reports

After-school Support

- MATHS@HOME
  - Structured Maths programme for learners
  - Per learner tracking & feedback
  - Facilitator training & support
  - Parental involvement

Technical Support

- Preventative maintenance
- Fault identification & resolution
- Technical advice

Youth Skills Development

- Technical Teaching Assistants
- IT Technicians
- Training & mentoring programme
Contact details

admin@greenshootsedu.co.za

www.greenshootsedu.co.za

021 851 0719