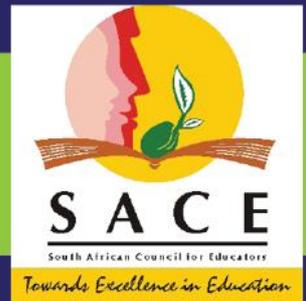


BRAINBOOSTERS

learning is child's play

GR 1 SACE TRAINING



Rethinking teaching & learning in Early Childhood Development to significantly impact literacy & numeracy



SACE CPTD POINTS

The BrainBoosters Grade 1 Mathematics LTSM comprises of three 2 ½ hour workshops. Each workshop carries 5 SACE CPTD points. When completing all three workshops, a total of 15 SACE CPTD points is accumulated.

AUDIENCE

This course is suitable for:

- Teachers who are registered with SACE and would like to accumulate CPTD points.
- Teachers who are looking for innovative and easy methods on how to teach Numeracy and Mathematical concepts.
- Heads of Department who would like to refresh their teaching skills and find new teaching methodologies.
- Parents who are looking for tutoring solutions.

OUTCOMES

WORKSHOP 1

1. Educators will extend their knowledge and enhance their teaching practices through an appreciation of the BrainBoosters methodology and approach to the teaching and learning of mathematics in Grade 1.
2. Educators will extend their knowledge and enhance their teaching practices through an awareness of the principles of counting that underlies all numerical concepts in the Foundation Phase.
3. Using the BrainBoosters LTSM educators will be able to equip learners with a conceptual knowledge base of quantities through the recognition of quantities and numbers through subtilizing.
4. Using the BrainBoosters LTSM teachers will be able to equip learners with a conceptual knowledge-base of numbers by enhancing learner's skills in counting as follows:
 - Count All
 - Count On
 - Count Forwards And Backwards
 - Ordinal Counting
 - Counting In Multiples
5. Educators will be able to extend learner's conceptual knowledge base of **numbers through number symbol and number name recognition** activities using the BrainBoosters methodology.
6. Educators will be able to extend learner's conceptual knowledge base of **numbers through ordering of numbers at the concrete, semi-abstract and abstract levels** utilizing the BrainBoosters methodology and applicable resources.

WORKSHOP 2

1. Educators will be able to extend learner's conceptual knowledge base of **numbers through addition and subtraction of quantities and numbers at the concrete, semi-abstract and abstract levels.**
2. Educators will be able to extend learner's conceptual knowledge base of **numbers through word sums at the concrete and semi concrete levels** utilizing the BrainBoosters methodology and applicable resources.
3. Educators will be able to extend learner's conceptual knowledge base of **numbers through number bonds at the concrete and semi concrete levels** using the BrainBoosters resources.
4. Educators will be able to extend learner's conceptual knowledge base of **money values**, utilizing the BrainBoosters resources.
5. Educators will be able to extend learner's conceptual knowledge base of mathematics **through practical problems that involve equal sharing leading to solutions that include unitary fractions**, utilizing the BrainBoosters resources.
6. Educators will be able to extend learner's conceptual knowledge base of **numbers through practical problems involving grouping of whole numbers up to 20 and with answers that may include remainders.**
7. Building on learner's acquired knowledge **of colours and shapes**, educators will be able to extend learner's mathematical knowledge base through **repeated patterns at the semi concrete level** utilizing the BrainBoosters methodology and applicable colour resources.

WORKSHOP 3

1. Building on learner's acquired knowledge of **numbers and patterns**, educators will be able to extend learner's mathematical knowledge base through recognition of 2D geometric shapes at the semi concrete level utilizing the BrainBoosters methodology and applicable resources.
2. Building on learner's acquired knowledge of geometric shapes, educators will be able to extend learner's mathematical knowledge base through recognition of **3D geometric objects** linked to **2D shapes** at the semi concrete level.
3. Educators will be able to extend learner's mathematical knowledge base through the **measurement of length at the concrete level** utilizing the BrainBoosters methodology and applicable resources.
4. Building on learner's acquired knowledge of numbers, educators will be able to extend learner's mathematical knowledge base through the **measurement of area at the concrete level** utilizing the BrainBoosters methodology and applicable resources.
5. Educators will be able to extend learner's mathematical knowledge base through the **measurement of distance at the concrete level** utilizing the BrainBoosters methodology and applicable resources.

6. Educators will be able to extend learner's mathematical knowledge base through the **measurement of capacity at the concrete level** utilizing the BrainBoosters methodology and applicable resources.
7. Educators will be able to extend learner's mathematical knowledge base through the **measurement of time (days of the week) at the abstract level** utilizing the BrainBoosters methodology and applicable resources.
8. Educators will be able to extend learner's mathematical knowledge base through the **measurement of time (months of the year) at the abstract level** utilizing the BrainBoosters methodology and applicable resources.
9. Educators will be able to extend learner's mathematical knowledge-base through the application of the **data handling cycle** utilizing graphs at the concrete and semi-concrete levels