

eMathStudio

The learning platform for mathematics that makes continuous feedback possible

Unlike word processors, pen&paper, or other math apps, eMathStudio helps you structure your calculation, and checks it for mistakes.

The **students** can learn from their mistakes.

The **teacher** sees the progress and problems of the students in real time. **Exams** can be corrected in minutes.

Schools can order specifically designed **skill gap evaluations** to see, which fundamental skills the students have mastered, and where they are lacking knowledge.

The screenshot shows the eMathStudio interface for a student named 'Student, Demo' working on 'ASSIGNMENTS' for 'South Africa ATP Grade 8'. The student is solving problem 44.c) 'Calculate. $-2y(1+y)$ '. The student's work is displayed on a grid background. The student has written: $-2y(1+y)$, followed by a step-by-step derivation: $= \{ \text{multiply the outer term with both numbers in the parenthesis} \}$, $-2y \cdot 1 + 2y \cdot y$, $= \{ \text{clean up} \}$, $-2y + 2y^2$, $= \{ \text{different degree terms, so I cannot add them, I can order them the other way to look nicer} \}$, and finally $2y^2 - 2y$. The system has provided feedback: a red exclamation mark for the first step, a green checkmark for the second, and a green checkmark for the third. Below the student's work, the system indicates 'Derivation not proved correct.' with a red X, and 'The answer is incorrect.' with a red X. The correct answer is shown as $2y^2 - 2y$. The interface also shows a 'Ready!' button and 'Previous check', 'Continue editing', and 'Check' buttons.

Impact in Finnish High Schools

Class average grades improved with 1-2 grades



Developed in co-operation with

Abo Academy University, Finland
University of Turku, Finland
The University of Edinburgh, UK
Stanford Research Institute, USA
Cambridge University, UK
Tampere University, Finland
Technical University of Munich, Germany
UNSW Sydney, Australia
Wurzburg University, Germany

Part of the Finnish National
Matriculation Exam