

Short lecture

Modern Mathematics lessons with Technology and central school-leaving exam? Does this go together?

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Abstract

There are central written exams (Abitur) in Germany in 15 of 16 federal states meanwhile. The author himself was head of the author group for the written exams in mathematics in Saxony from 1992 to 2002. By a fundamental change of the performances of mathematics lessons to a stronger orientation on the acquisition of competences but also by the availability of new media lessons and central exams have changed the mathematics at school in the last years.

Many countries have introduced the central abitur in Germany within the last 10 years. Furthermore the countries have for Bavaria, Hamburg, Niedersachsen, Mecklenburg, Saxony and Schleswig-Holstein in 2014 introduced a country general central abitur even for the first time.

In connection with this, there are a lot of questions, it was to look for solutions:

What is the role and sense of technology in the lesson and in exams?

How do the pupils have to document solution ways?

How should the structure of an exam be chosen?

Which role plays paper and pencil in the exams?

What is an "easy" task in the future?

Which contents should be taken into account in a mathematics lesson with technology?

In the lecture some of these questions shall be illustrated with different examples of abitur tasks.