

# **The Positive Aspects of Modeling Process in Teaching Mathematics**

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## **ABSTRACT**

This paper proposes modeling based learning as a tool for learning and teaching mathematics. The example of modeling real world problems related to exponential functions and differential equations is described, as well as the statistical data that are obtained by tracking students' achievements in the modeling process.

The modeling process in mathematical education tends to follow the didactical cycle of activities and reach a desirable level of accomplishments of students' activities and competencies. In this process students were encouraged to use software such as Geogebra in order to develop and foster deeper learning of mathematics, connected with the real world problems.

## **Keywords**

Modeling, real world problem, exponential function, educational software