

Solving real-life problems for increasing the motivation of students in learning mathematics

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One of the priorities of the European education and in our country in general is increasing the knowledge of students in Mathematics. Students use computers, mobile phones and other devices to satisfy their everyday needs. If we manage to encourage the students and motivate them to use these electronic devices for testing, research and solving problems which they encounter in everyday situations, they can be motivated to learn mathematics and at the same time their level of knowledge will be increased.

For this purpose there is an interactive book Math Labyrinth developed on a web site math-labyrinth.eu.

The problems uploaded on the web site are in accordance with the contents and topics covered in the curricula for secondary education and in relation with everyday situations. These problems require knowledge in mathematics in order to be solved. After reading and understanding the problem, if the student knows the procedure for solving, he/she will begin doing the task. They will also be able to check whether the answers are identical to the given solution. If the students experience some difficulties they can look at the provided applets that enable visualization of the problems and then choose path with steps and hints. By going through the given path that explains the procedure and using ICT, the student can come to the solution by himself.