

Microsoft Partners in Learning Customer Reference

Innovative Solutions



Fast Facts

Customer

Secondary technical school
Střední průmyslová škola,
Praha 10, Na Třebešíně 2299

Country: The Czech Republic

Web Site:

<http://www.trebesin.cz/web/>

Innovative, secondary-level, technical school with proactive direction, inventive teachers and focus on using modern equipment, information and communication technology in the teaching process.

The school's premises have hosted the residence of the Central European STIC – School Technology Innovation Center since its very beginning.

Microsoft has been cooperating with the school on numerous activities created by the tight collaboration between the school, STIC and the PiL program.

For more information about other Microsoft Partners in Learning customer successes, please visit:
www.microsoft.com/emea/PartnersinLearning

Microsoft Student 2007 and its use in teaching mathematics

The Secondary Technical School in Prague 10 realizes the needs and wants of all of its nearly 600 students and so it tries to offer them the best possible hardware and software equipment available for PC oriented on providing high quality education to secondary-level students. Since this school has been trying to educate first-rate technicians with high probability of future technical university studies, the choice for a PC application that would enable the students to understand the basics of mathematics was quite straightforward: the school PC terminals have been supplemented by the highly acclaimed Microsoft Student 2007 application.

The newest version of this application brings its users a spectrum of possibilities to make teaching as well as preparation for teaching a pleasant and efficient activity. Microsoft Math helps to give all the school's students the confidence to solve the most difficult math and science equations quickly and accurately. The most popular among the school's teachers and student is the easy-to-use and fully-functioning 2- and 3D Graphing Calculator software.



The pedagogues teaching Calculus and Mathematics at the Secondary Technical School in Prague 10 have got to like the Graphing Calculator mainly because its interactivity with which they can for instance show changes of behavior of a function or both parts of imaginary numbers.

The school's teachers have been using the Graphing Calculator for presentation of functions, domains of definition, value domains, characteristics, points of intersection with the axes, or shapes of curves.

They especially love the application's ability to create precise graphs of the corresponding functions, which enables the students to get to understand not only numerical but also graphical solution of equations: *"And not only one equation,"* says Paed. Dr. Soreya Zychova, one of the teachers using Graphing Calculator for teaching nearly every day, *"but more of them, and it is possible to differentiate them by color, so the students are able to see how the graph of a function changes its shape when we change some coefficients in the equation. An enormous advantage of this application is also its ability to show everything in a three-dimensional space."*

The teachers also speak highly about the effective connection of Student 2007 with an interactive board, where it is very simple for example to turn the teaching process upside down and to make students themselves to derive the characteristics of a function with the help of the graphs and then to quickly verify their hypotheses. Plus, Graphing Calculator is so intuitive to use that also teachers with less experience with using ICT in classroom are able to embrace and adopt this application.

All these classroom activities allow the teacher to directly integrate all students to the teaching and learning process, the lesson then becomes much more interesting and both the students' activity and their attention increases.

The STIC – School Technology Innovation Center – is a response to the needs of the teacher community in the EMEA region. The role of the Central European STIC is to function as a showcase for new technology that has potential for positive impact on teaching, learning and self-study.

"An enormous advantage of this application is its ability to show all the functions and their graphical solutions in a three-dimensional space."

Paed. Dr. Soreya Zychova, Secondary technical school, Prague 10, Na Trebesine 2299