

## **ABSTRACT**

The diploma thesis deals with detailed look at the project Education 21 and so the teaching using new technologies, especially interactive whiteboards and netbooks, in Czech schools. The objective was observation of teaching mathematics, methods of using interactive whiteboards and netbooks in mathematics lessons at secondary schools participating project Education 21. Evaluation and conclusions are based on analyzes of lessons recorded in the academic year 2009/2010 and 2010/2011, which were investigated and further divided into shorter stories in case that interactive whiteboard or netbook was used in some way. I watched purpose and the way of use of interactive whiteboard or netbook in the episodes, then the material which this technology was used with the aid of and who worked with interactive whiteboard. Some episodes can serve as an example of "good" or interesting way of working with the IWB and NTB in mathematics lessons, or they can be an inspiration for other mathematics teachers but also teachers of other subjects.

**Keywords:** interactive whiteboard (IWB), netbook (NTB), interactive textbook – e-books, applet, mathematics, Education 21, smart notebook, videos.