

Abstract

Possibility and Use of Activation in Chemical Education

Mgr. Barbora Zákostelná

Faculty of Science, Charles University in Prague, 2012

In the last decade educational curricular documents in the CR interconnected with the European Union have been changed. The structure of national education comes out of so called Lisbon trial in which the Czech Republic has participated since 2010. Before this reform there was a document 'National Programme of Education in the Czech Republic' (so called White Book) from which the new education law (No. 561/2004 of legal code) originated.

One of the main parts of the reform is introduction of General Educational Programme (RVP) in education (from pre-school education up to higher secondary education). On the basis of RVP published and endorsed by the Ministry of Education each school creates its own individual School Educational Programme (ŠVP). It is just the ŠVP what makes each school different from other schools with similar type of specialization and allows them to prepare a unique schooling.

Uniqueness can be also achieved by using "modern didactical technology" electronic materials and activation methods of teaching. This fact has made a basis for the questionnaire survey that is a research part of this dissertation work.

A partial aim of this work was to find out accessibility and applicability of technical and material teaching aids in basic and secondary schools. Another partial aim was to compare whether between 2008 and 2011, when there was a questionnaire survey carried out, occurred an increase or decrease of application accessible technical and material teaching aids (in comparison with already existing available research). Further there was looked into whether teachers actively use these aids and develop them.

As a part of this dissertation work there are five electronic materials in form of games that were made up for a deeper interest and motivation of chemistry teachers to work with electronic didactical games and other supports.

Key words: survey, school equipment with teaching aids, curriculum, didactical game, activation methods of teaching.