

The present diploma thesis concentrates on the usage of inquiry based education in the primary stage of education in the course of teaching science. Attention is firstly given to the students' skills which this type of education utilizes and without which it would be impossible to apply it in practice. These skills are analyzed on a theoretical level and consequently, by means of a didactic test, are practically tested with pupils at primary school level. Another part of the thesis are materials for selected science topics which evolve from the inquiry based education principle. The topics are chosen in accord with the official educational programme of the Czech education system and contribute towards a more effective educational process and the heightening of the interest of students in science.