

## **Abstract**

The theoretical part of the diploma thesis focuses on the importance of nature in the pedagogy of Marie Montessori. It points out the importance of using appropriate selected tools and the application of teaching techniques of Marie Montessori. It also focuses on the secondary education reform plan and provides examples of activities for students aged 12 to 18. In the practical part the tool inspired by Montessori pedagogy called Stromové pexeso was created. The tool is used for identifying tree species. The tool offers many ways how to use it. The methodology of working with the tool was verified in practice at the 2nd level of primary school and vocational school. The purpose was to find out the practical use of the tool and whether its using can affect the better memorization of the subject matter. The most students appreciated the use of the tool and it was discovered that playing with toll has a positive effect on memorizing the subject matter.