

ABSTRACT

The topic of the thesis is the characterization of the arachnid group and selected orders of this group. The main part of the thesis is devoted to the design of a teaching block on arachnids for pupils of 7-9th grades of primary schools. The theoretical part contains a general characterization of the arachnid group and a more detailed description of the five selected orders (scorpions, scorpion mites, spiders and mowers) and the representatives who were also chosen and included in the teaching block. It also addresses selected activation methods in science education.

In the practical part, a two-hour teaching block with included and selected activation activities is designed and subsequently implemented in two Prague primary schools. The results of the pupils of both primary schools (Petřiny and Písnická) were very positive. In both classes there was a significant acquisition of knowledge and skills after the teaching block. Prior to the teaching block, pupils from all classes had correctly written down an average of seven concepts in their mind maps. After the teaching block, there was an increase in the number of concepts (around 10 on average each time) correctly used and written down. The pupils evaluated the inclusion of the mind map, the transformed jigsaw learning and the didactic game positively. They also rated the inclusion of mind maps as useful for their further science learning and for studying for tests. Overall, they rated the teaching block as beneficial, with potential for future use.