

This thesis deals with aids for teaching Geometry at primary and secondary schools. The aim of the thesis is creating several visual aids for substantiation of statements or constructions. Specifically, there is a tool for explaining validity of the Pythagorean theorem, a tool for showing formation of conic sections as sections of circular cone, a tool for demonstrating the definition of an ellipse and its Gardener's construction and a tool for showing and simulating both stereometric relations and problems.

A part of the thesis deals with the current curriculum of Geometry on Czech primary schools and selected types of secondary schools. Further, the thesis lists and describes some aids that are used in general public schools and in selected types of schools using alternative methods of teaching Mathematics (The Hejny method, Waldorf and Montessori schools). The thesis is also intended to be used by teachers for inspiration of developing their own tools or to orient themselves in the tools already produced.