Key topic of this diploma thesis is study of possibilities of applying constructivist approaches in teaching information and communication technologies (ICT) subject at Czech elementary school (equivalent of K-12). More specified at 1st to 4th grade of multi-year grammar school.

The paper maps current situation in education of ICT skills and it consists of theoretical part and action research. Theoretical basis is focused on constructivist pedagogy and includes suggestions, general principles and specific principles for teaching of ICT - computer graphics. These suggestions are verified by action research within ICT lessons.