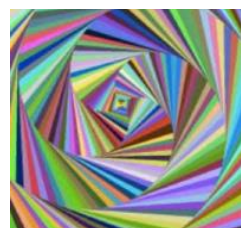


## Scratch in the Classroom: Ideas for Lessons

We have commonly collected examples of lessons in which Scratch helps to deepen understanding, creates situations of discovering basic concepts by the students themselves or lead to motivating tasks that have to do with real life. In most of the time students who are good at coding and love to do that can prepare the files that then can be used in lessons. This list will be continued.

Topic	Concrete Ideas for work with Scratch	Subject
Mental Calculation	A scratch file with simple calculation (for younger students) tasks can be prepared by using randomised numbers. Each task appears for a short time on the screen (video projector) and students have to write down the results of tasks. Programming of such a file that easily can be adapted to different types of calculation and range of numbers can be done by an older student.	math
Labelling an illustration or a scheme	Easy to prepare, by clicking on a part of the screen the label appears. It can also be used a revision and a file for each student. The student has to type in the right word and all right answers are summed up.	biology, physics, chemistry, history, geography, math, foreign languages
Illustrating a poem	By nice backgrounds and or music or own voice	native language
Description/story telling	Describing as process e.g. a recipe in a foreign language or telling a story (homework for those who love to work with Scratch)	foreign language
Creating nice graphics	Using Gimp to create geometric pieces of art and modify it by < changing the code only a few or using random numbers for lengths and angles	art math
Polygons	Detecting properties of regular polygons, finding formulas	maths
Games	Creating games and improving games, adding higher levels to learn basics of coding by doing or continuing the coding that classmates had done before or ...	computer science/ technology
Quiz	The quiz is prepared by a student and can be used in lessons whole class working or for each students	almost all subjects



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