GeoGebra in the Classroom: Art Lessons

We have commonly collected examples of maths lessons in which GeoGebra 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.

Topic	Concrete Ideas for work with GeoGebra
Perspective: parallel perspective, central perpective	Exploring the difference, constructing it instead on paper with compass and ruler
Gothic or Roman windows in churches	Getting to know the principles of geometric construction like trifoil or arches pictures pictures
GeoGebra string art	String art normally is hand- craft. But it can be done also by geogebra. The advantage is that you can animate points on a (hidden circle) Best that E. F. G and then put in a for the number.
Optical illusions and paradox figures Lesson plan on the internet Results of my own class	picture
Using GeoGebra as an animation tool Lessons plans on the internet	Modelling and simulating real life objects

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Artists who create geometric art	My collection on pinterest see also Daniel Mentrard
Minimal art (animated)	see <u>our worksheets anstudent's work</u>
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	<u>picture</u>
Islamic art see <u>Classroom resources</u> in the internet	picture
Tesselations and the art of Escher	picture
Golden Ratio in Art	How to construct it? Investigation of buildings or paintings to discover the golden ration picture
Fibonnacci Art Project See <u>lesson plan</u> on the internet	The advantage of using GeoGebra is that the positition of the circles and be changed. The disadvantage are the colors for intersecting circles
Max Bill	Young students can make constructions of pieces of art from the Max Bill. A lot of pictures an be found here .

Art with polygons	Ideas given by a GeoGebra-Book from Irina Boyadzhiev , especially for ypunger sudents, who start with GeoGebra
maths in art (crosscurricular)	A <u>GeoGebra-Book</u> that gives a lot of ideas to construct like Mondrian, Klee, Vasarely,
Geometric art	There are many ideas related to art topics and maths See link to Google search