## Math Art Corner - circles and polygons - project 2

We will easily construct wonderful circle pattern!!!

## Subject:

Project idea: Analyzing way of construction with nice given circle pattern, construct it with GeoGebra (changing it) and colourising it with an image editing program e.g. Paint.


Step 1: This is the original pattern!


Step 2: Construction with GeoGebra is done!


Step 3: The colourful result!

## Project 2: Ying Yang, GeoGebra \& wonderful pattern

In this project you will learn how to work with GEOGEBRA. You will get to know how to construct circles, half circles, midpoints and polygons. One of the best keys for beginners is the undo-option.

1) Chose a pattern or create your own one. Try to find all half circles, regular polygons and think what\#s the best object to start with and construct the figure.
2) Hide all lines that you do not really need for the pattern. Cut out your construction if you like to color it with an imaging software.
3) Insert the picture in e.g. PAINT program and colour it. So that you will get a nice pattern.

Have fun!



## Art with circles and polygons

## Project 2: students' results (10/11 years old) of PGU Unna (GER)

constructed and coloured with GeoGebra


Constructed and coloured with GeoGebra


Constructed with GeoGebra



Constructed and coloured with GeoGebra


Constructed with GeoGebra, coloured in Paint by Merlin, grade 9


Constructed with GeoGebra, then coloured with Paint by Merlin(grade 9)


Constructed with GeoGebra, then coloured with Paint by Merlin(grade 9)


Constructed with GeoGebra, then coloured with Paint by Merlin(grade 9)



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