Good practices
INTER_512_BCD_EN

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Description of the problem / exercise: **Squares with golden rate**

We make a special set of squares from paper, where the rates of the squares are in golden rate. We can use the different size of squares separately or put on one big square so as a special Poly-Universe element. We can combine these bigger and smaller squares as we wish (Figure 1).

We have examined what kind of aesthetic geometric shapes we can construct using the different colors and sizes with two special rules:

a) the squares can be lapped over each other
b) the squares cannot be lapped over each other.

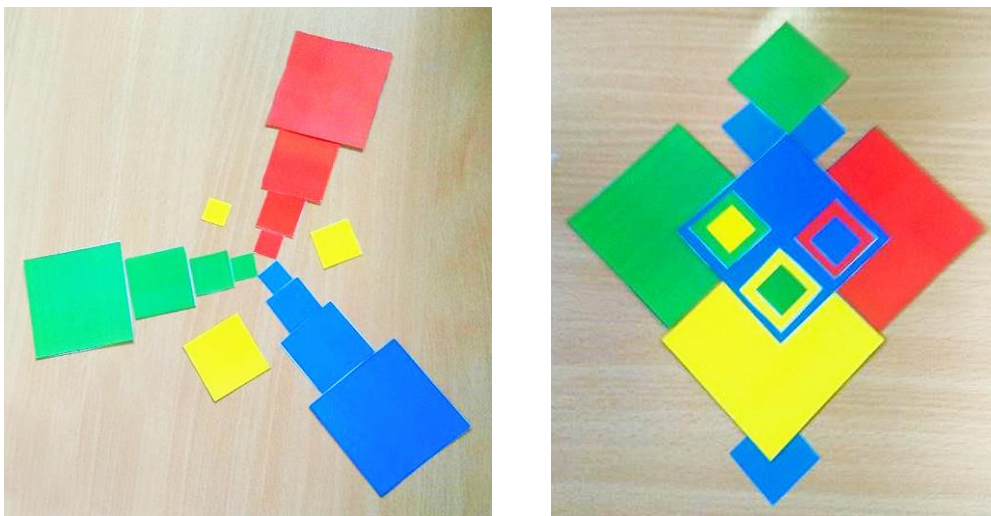We present two examples:

Figure 1

- *Why this exercise is good:* This task develops creativity, cooperation, spatial skills, part-whole perception, motor skills.

- *Which level is recommended:* For any pupils of upper primary or secondary school, for any university students.

- School subject(s): Mathematics (the golden rate), arts, technique

- *Comments*: It can be used for motivation beginning a geometric topic in mathematics lesson, as well as a social workshop in inclusive education.