

Good practices ARTS_303BC_EN

Author's name and institution: **Gordana Stankov**, Subotica Tech – College of Applied Sciences, Subotica, Republic of Serbia

Description of the problem / exercise: **Pirot rug and Poly-Universe**

The Pirot rug is a hand weaved woolen carpet with unique motifs and ornaments having both front and back sides identical. The task is to design geometric patterns for a carpet inspired by the Pirot rug, the manufacturing of which is included into the list of Intangible cultural heritage of Serbia.



Source: <https://srpskatelevizija.com/2017/05/24/cilim>

All the ornaments have their special meanings and it can be the starting point for discussion, exploration and analysis of folk customs, beliefs, tales and (or) poems.

Using Poly-Universe sets and inspired by ornaments of Pirot rug students can design new geometric patterns for their carpet of 30 cm long and 20 cm wide.

They may be given the following types of calculations to do:

If we know that $\frac{1}{2}$ g of wool has to be used for weaving one square centimeter of Pirot rug, please, calculate the mass of wool in each color, which is necessary for making the carpet.

Students learn weaving and they can weave their carpet.

The geometric patterns of the Pirot rug can be compared with the geometric shapes of traditional handicrafts of other nations.

- *Why this exercise is good:* Competences which are developed and knowledge which is deepening: creativity, aesthetic competence, organizational skills, communication skills, collaboration skills, weaving.
- *Level of teacher training:* Elementary, secondary school
- *School subject(s):* Art and design, languages, mathematics, history
- *Comments:* For ages over 10 years