## Good practices

INTER_508_BCD_EN

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## Description of the problem / exercise: Poly-Universe Mobius strip

Using all elements of the triangle set make 'rhombus pairs', with connecting two-two elements with the same colors of the big and middle triangle (so the small triangles are always free). After this, make a long line from these rhombuses, connecting them with the small triangles (same colors). If doing it right, the colors of the small triangles on both edges will be the same. Now you can form a Mobius-strip from the triangles.

Question: What kind of symmetries can you recognize on the strip? How many sides the Moebiusstrip has got? For talented students: what is the dimension of this strip?

- Why this exercise is good: This exercise combines mathematics with art. It gives several possibilities to discover structures, geometric shapes, transformation, etc.
- Which level is recommended: For pupils from the age of 13 , for subject teacher students of mathematics and arts.
- School subject(s): Mathematics, arts
- Comments: We can make the string from the original elements of Poly-Universe, and if it is done, we can draw it on a paper strip to make the Mobius-strip.

