

Grades 9-12 (S)

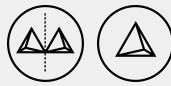
Duration: 20 min

Tools: one Logifaces Set / class

Individual work

Keywords: GeoGebra 3D, Coordinates, Reflection about Plane

530 - Planes of Symmetry in GeoGebra



MATHS / TRANSFORMATIONS



LOGIFACES
METHODOLOGY
Erasmus+

TEACHER
Logifaces

2019-1-HU01-KA201-0612722019-1

DESCRIPTION

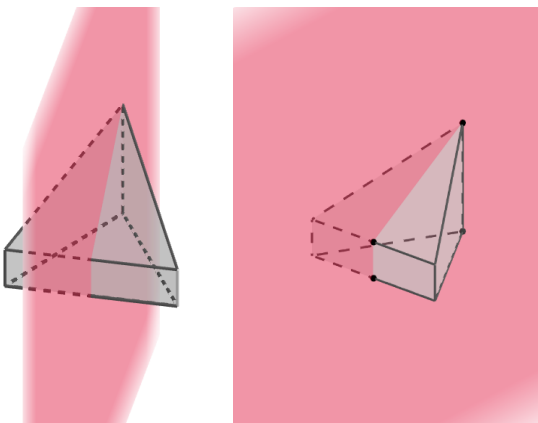
Students draw a plane-symmetric Logifaces block and all possible planes of symmetry in GeoGebra.

SOLUTIONS/EXAMPLES

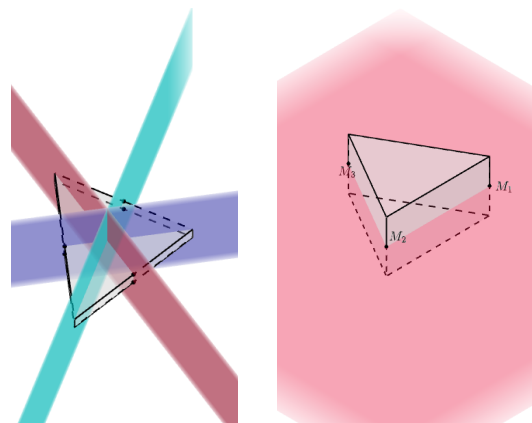
To create a Logifaces block in GeoGebra see exercise [527 - Coordinates in GeoGebra](#).

Select three points then use the Plane command to create a plane through the three points. Use the Midpoint command to find suitable points. The following figures show the solutions for blocks 113 and 222.

Block 113:



Block 222:



PRIOR KNOWLEDGE:

Geometric transformations in 3D, GeoGebra commands

RECOMMENDATIONS/COMMENTS

The exercise [522 - Planes of Symmetry](#) is a similar exercise without using GeoGebra.