Name: Date: Tools: one 9 pcs Set / class	534 - Upside down Blocks in GeoGebra  **MATHS / TRANSFORMATIONS**	LOGIFACES METHODOLOGY Erasmus+ STUDENT Logifaces 2019-1-HU01-KA201-0612722019-1

DESCRIPTION

LEVEL 1 Students start with the GeoGebra model of the block 123 (see exercises 526 - Calculate the Coordinates and 527 - Coordinates in GeoGebra). The task is to find transformations to move the block in such a way that the top face lies in the xy-plane, one edge lies on the x-axis, one vertex is in the origin and the whole block is contained in the upper half-space.

HINTS

- Recommended steps of transformations: reflection, rotation around a line, translation
- It is recommended to start with the model where the vertical edge of length 1 has coordinates x=0, y=0, and the vertical edge of height 3 has coordinates x=4, y=0.

LEVEL 2 Students calculate the exact values of the coordinates of the block placed as in the Level 1 exercise. They can use the transformations to help the calculations.

SOLUTION(S)