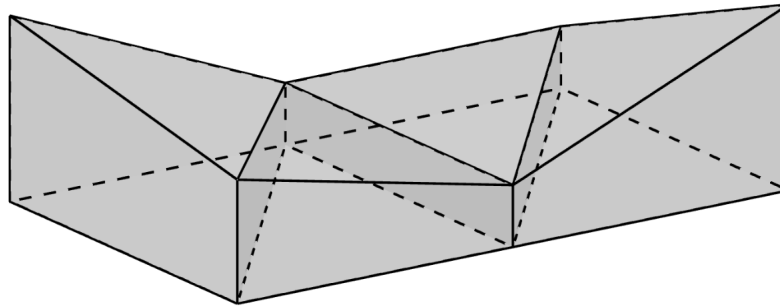| Grades 1-4 (AD), 5-8 (AD), 9-12 (AD)

Duration: 20 min

Tools: one Logifaces Set / group

Pair / Group work

Keywords: Area, Symmetry, Surface, Volume, Prism | 504 - Quiz

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MATHS / 3D GEOMETRY | **TEACHER**
Logifaces

2019-1-HU01-KA201-0612722019-1 |

DESCRIPTION

Students get a model of a few pieces connected in a continuous surface and cards with the description of each piece of the model. The descriptions consist of mathematical features of the Logifaces pieces, which students aim to pair with the correct prisms.

SOLUTIONS / EXAMPLES

Students have to be familiar with the features of prisms in order to find the right piece in the continuous model.

For example, in the figure we can see a continuous model consisting of blocks 132, 112, 111 and 113.

The cards with the text could be as follows:

Grades 1-4:

Sum of the heights is 4. *(answer: 112)*	One height is larger than the sum of two others. *(answer: 113)*
3 different heights *(answer: 132)*	Regular prism. *(answer: 111)*

Grades 5-7:

Regular prism *(answer: 111)*	Can be completed into a regular prism with block 233. *(answer: 112)*
No symmetry *(answer: 132)*	One lateral face area is twice the area of another lateral face. *(answer: 113)*

Grades 8-12:

Right regular prism *(answer: 111)*	Sum of the areas of the lateral faces is 30 cm^2 *(answer: 132)*

The sum of all the edge lengths is approximately 37.4 cm (*answer: 113*)	The sum of the areas of two lateral faces is approximately 15,6 cm^2 (*answer: 112*)

PRIOR KNOWLEDGE

Depending on the age and the particular questions: Properties of prisms, Symmetries, Calculation of area, Surface area, Length, Volume

RECOMMENDATIONS / COMMENTS

This exercise can be used to differentiate by giving different cards to different groups or students.