



<p>Name:</p> <p>Date:</p> <p>Tools: one Logifaces Set / class</p>	<p>529 - Coordinates of a Rotated Block</p>  <p>MATHS / COORDINATE GEOMETRY</p>	 <p>Erasmus+</p> <p>STUDENT Logifaces</p> <p>2019-1-HU01-KA201-0612722019-1</p>
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DESCRIPTION

Students rotate the Logifaces blocks to position them into the 3-dimensional coordinate system in particular ways. The terms “vertical edge”, “base” and “vertical face” will be used for the normally placed block (see the introduction).

LEVEL 1 Students position a Logifaces block into the 3-dimensional coordinate system so that one of the vertical faces fits in the plane of the x and y axes, one base edge fits on the x-axis and one vertical edge fits on the y-axis. They calculate the coordinates of the other vertices of the block.

LEVEL 2 Students position a Logifaces block into the 3-dimensional coordinate system so that one of the vertical faces fits in the plane of the x and y axes, one base edge fits on the y-axis and one vertical edge fits on the x-axis. They calculate the coordinates of the other vertices of the block.

POSSIBLE EXTENSION

Students discuss within small groups or with the whole class the relationship of the solutions of the Level 1 and Level 2 exercises. They also compare the results with exercise [526 - Calculate the Coordinates](#).

SOLUTION(S)