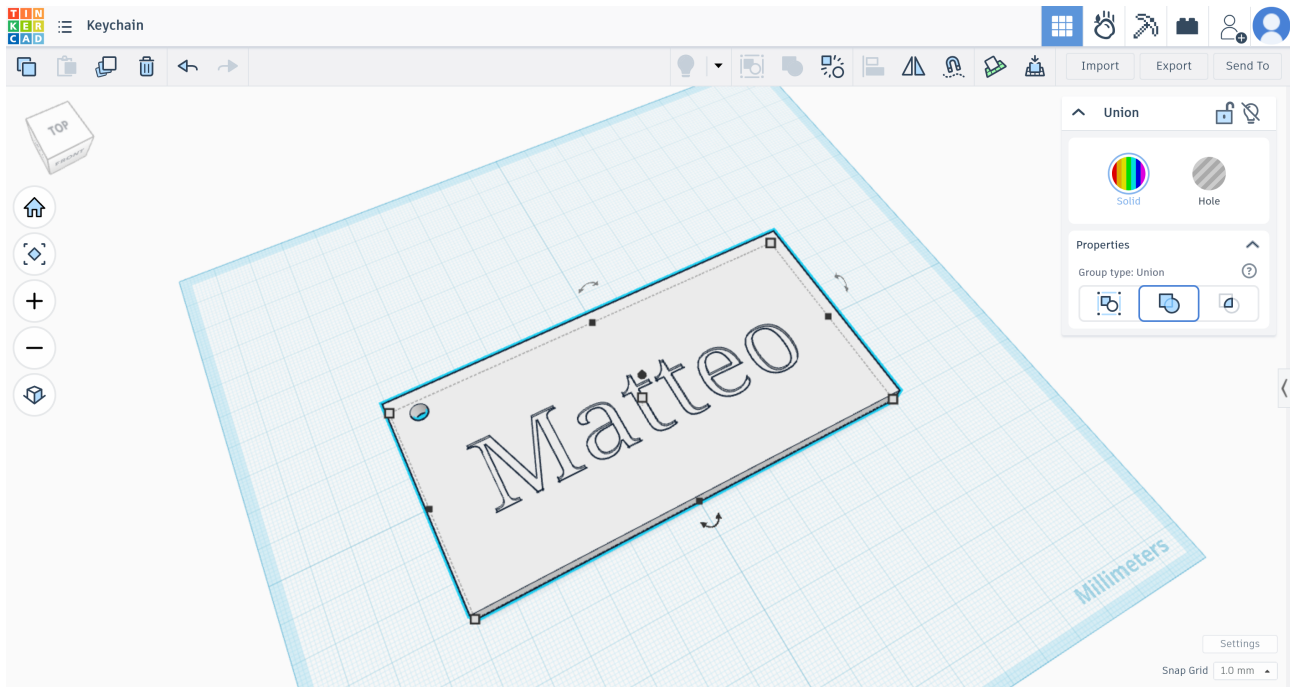


CAD exercises Block C3.1.2

Exercise 1: "Your Name"



The exercise already requires basic knowledge of how Tinkercad works, such as creating an empty project, understanding the difference between a solid and a hole block, and grouping multiple blocks together. After going through the "Lesson plan of CAD Block C3.1.2" in the "All Daily Lesson Plans" PDF provided in the teacher documents, it becomes clear that nothing is really explained. Moreover, most of the blocks are unfinished, so there is no relevant information.

Lesson plan of the CAD Block C3.1.2 (Unfinished)

| | |
|---|------------------------|
| Block number: | C3.1.2 |
| Block name: | CAD |
| Category: | CAD |
| Must have blocks before: | Completed all blocks |
| Length: | 90 min |
| Target group: | Zyklus 3 ab. 5. Klasse |
| Version: | 1 |
| Release date: | 17.04.2026 |
| Abbrivation: | Team 37 |
| Following blocks: | none |
| Goal | |
| The children learn to use tinkercad as a tool to design the necessary holders that they will use to hold components for their bridge. This lesson will guide the children through the thought process of how to design and draw a mount for different components. | |
| Prior knowledge Coach | |
| <ul style="list-style-type: none"> Basic knowledge | |
| Material & Infrastructure | |
| General Material | |
| <ul style="list-style-type: none"> TinkerCAD_worksheet_C3_1_2.pdf | |
| Preparation before the course | |
| <ul style="list-style-type: none"> Prepare the worksheet | |
| Story and what happens | |
| The City of Lucerne has provided practice worksheets so that the students are prepared to design the final bridge in tinkercad. | |
| Typical mistakes and structured plan | |
| Make sure the students complete the exercises of the worksheet. | |
| Role of the teacher | |
| Supervise and help the students while they complete the worksheets. | |

Exercise 2: "First Parts"

There is no folder called "For Engineers", and the folder contains two templates. The Tinkercad template does not have the same name as the one stated in the exercise. Therefore, the folder should have been structured better, and the naming should have been consistent with the exercise.

The instructions for this exercise assume that the students already know how to import files. Also, the imported block has to be rotated, but the direction is not specified.

The instructions for the block to be placed on top of the imported one do not state whether the hole should be parallel or orthogonal to the holes on the bottom.

