



The shapes building

Learning Objectives:

- Know how to manipulate simple shapes using tinkercad.com
- Understand how 3D printers works.
- know how to modify files already made in order to appropriate them.

Level of Difficulty: Level 2

List of Materials Required:

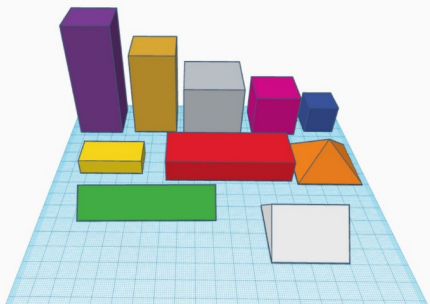
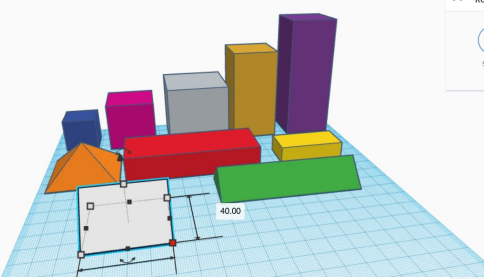
- A 3D printer
- A spool of filament for the 3D printer (11 different colours are required)
- Some sheet to print the different worksheet

3D Modelling Skills Needed:

- Know how to move an object on the plan
- Know how to resize an object

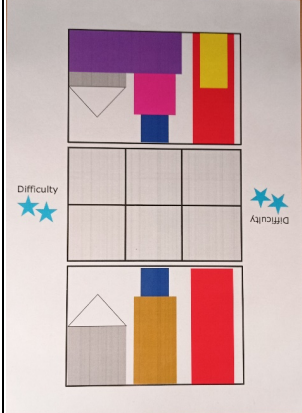
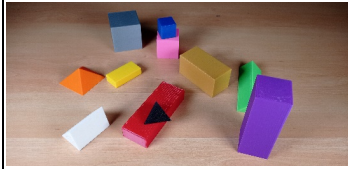


Step-by-step 3D Modelling

<p>Step 1</p>	<p>Create the shape</p>	
<p>Step 2</p>	<p>Modify the dimension:</p> <p>Cubes: blue 2cm, pink 3cm, grey 4cm</p> <p>Cuboid: gold 3x3x6cm, purple 3x3x8cm</p> <p>Red 3x8x1.5cm, yellow 2x4x1cm</p> <p>Pyramid orange 4x4x2cm</p> <p>Triangular prism: green 8x3x1.4cm</p> <p>White 4x4x2.2cm</p>	

Creation of the Exhibit

Assemble/disassemble and store the exhibits, accompanied by the corresponding time-frames

<p>Step 1</p>	<p>Print your worksheet.</p>	
<p>Step 2</p>	<p>Print your shapes</p>	

Design Map

Commenté [CT1]: *Do you agree on moving this part before the analytical step-by-step?*

