

Building cubes

Topic/Learning objectives of exhibit:

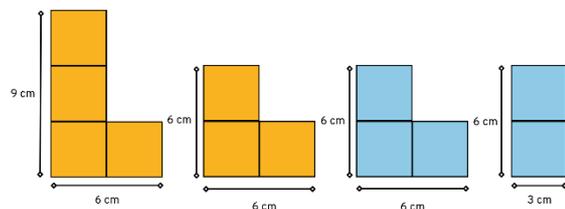
Geometry, problem-solving skills, volume.

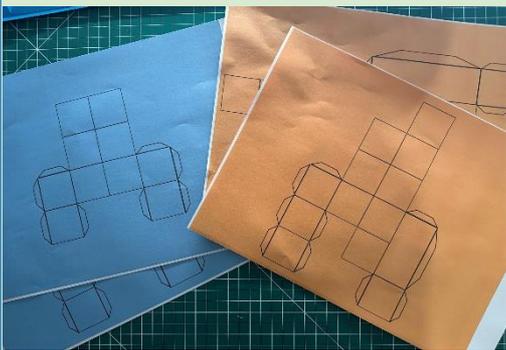
List of Materials Required:

- 4 A4 orange-coloured sheets of cardboard
- 7 A4 light blue coloured sheets of cardboard
- Glue/Tape
- Scissors

Step-by-step Construction

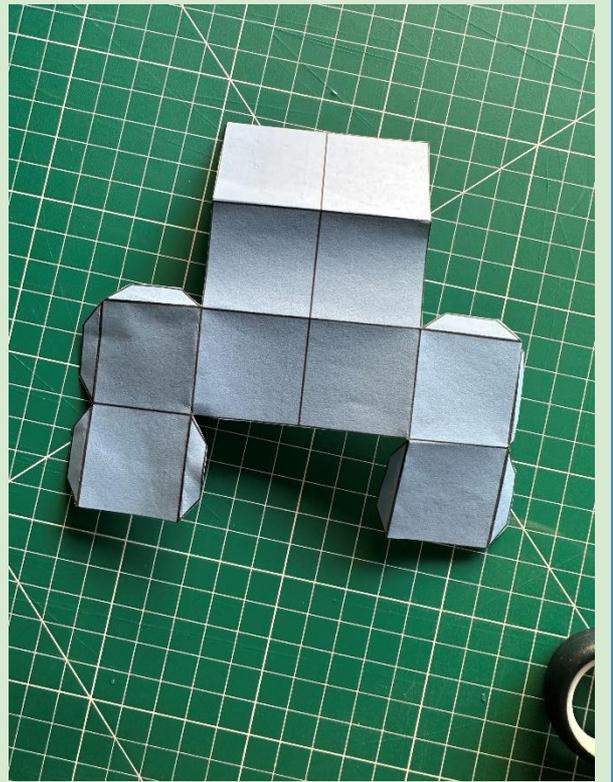
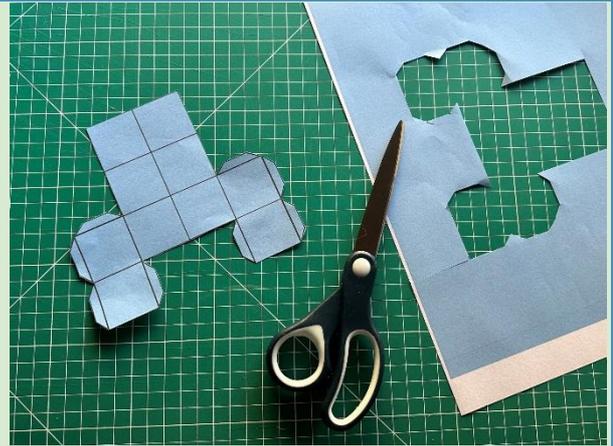
Estimated Time: 30-40 minutes



<p>Step 1: Print out the shapes of the cubes</p>	<p>Print the cubes on coloured cardboard or coloured paper:</p> <ul style="list-style-type: none"> • 2 x 2 x 2 cube: Two (2) L-shaped pieces with 3 units and one (1) double cube • 3 x 3 x 3 cube: Six (6) L-shaped pieces of 4 units and one (1) L-shaped piece of 3 units 	
--	--	--

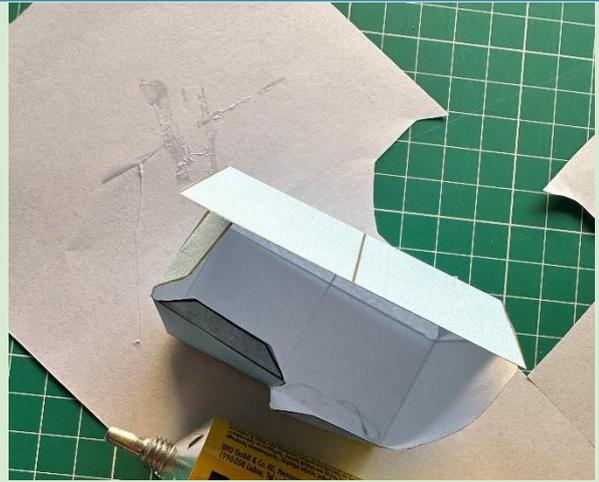
Step 2: Cut out the shapes with scissors

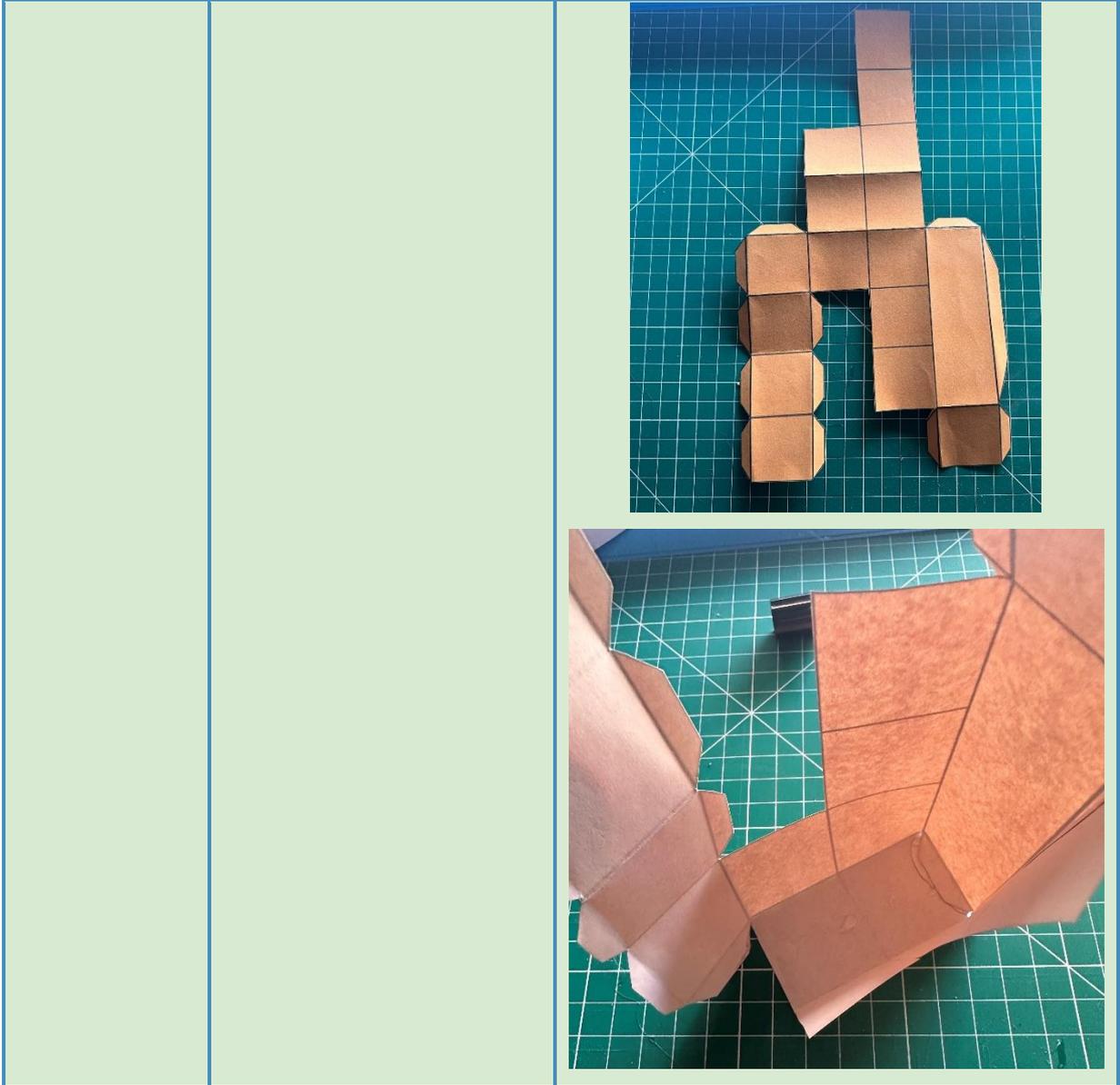
Use scissors to cut out the shapes. Fold along the lines of the cut-out shape.



Step 3: Use tape or glue to stick the sides together

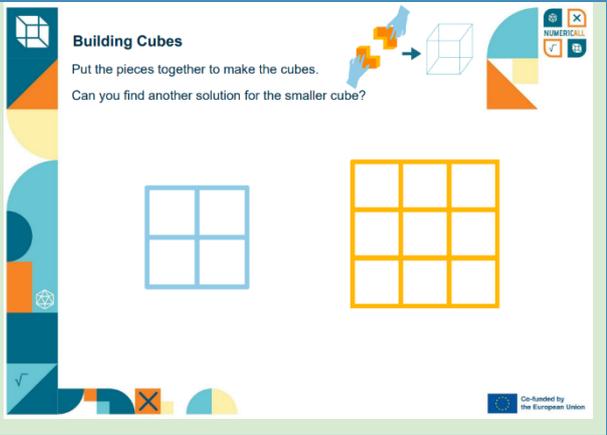
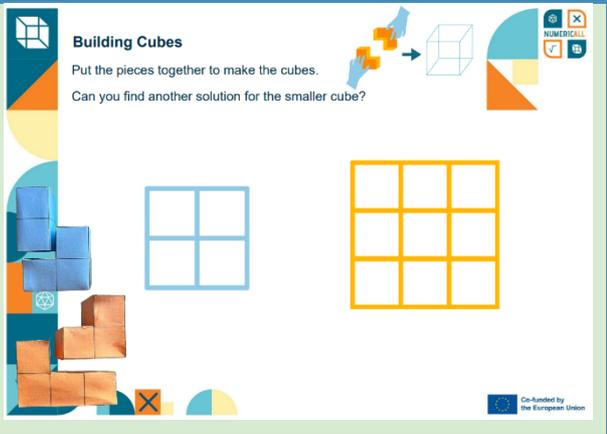
Use tape or glue to stick the sides together to make the cubes. Glue the small pieces to the inside of the cube surfaces.





Assembly

Estimated Time: 5 minutes

<p>Step 1: Prepare the exhibit board</p>	<p>Print out the corresponding board on A3 paper and laminate it (optional).</p>	 <p>Building Cubes Put the pieces together to make the cubes. Can you find another solution for the smaller cube?</p>
<p>Step 2: Ready to use</p>	<p>You are ready to use the exhibit!</p>	 <p>Building Cubes Put the pieces together to make the cubes. Can you find another solution for the smaller cube?</p>

Observations

The cubes can be constructed using wood cubes from arts and crafts by glueing each piece as a sturdier option. Other options include math links or a 3D printer.