

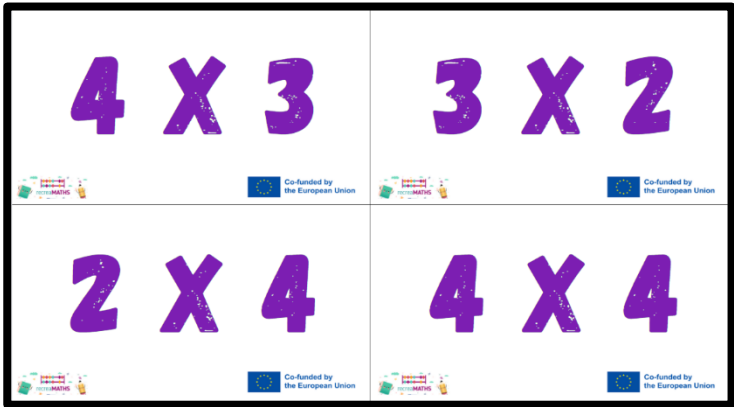


## Workshop

# Funky Array

<b>Level of difficulty</b>	Level 2
<b>Duration of the activity</b>	15 minutes
<b>Number of participants</b>	Individual
<b>Mathematical concept</b>	Approach to Multiplication
<b>Inventory of the hands-on exhibit</b>	<ul style="list-style-type: none"> <li>- 3D Printed Compartment Box - Array</li> <li>- Buttons or Pom poms (can also be 3D printed)</li> <li>- 1 laminated workshop sheet with multiplications on it</li> </ul>

## Instruction and description of the activity step by step

<b>Instruction</b>	<b>Choose a multiplication card and fill in the array to find the result.</b>
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Step by step	Description	Illustration
<b>Step 1</b>	<ul style="list-style-type: none"> <li>Choose a card when indicated by your teacher</li> </ul>	 <p>The illustration shows four multiplication cards arranged in a 2x2 grid. Each card displays a multiplication problem with large purple numbers and a small logo at the bottom that says 'Co-funded by the European Union'.</p>
<b>Step 2</b>	<ul style="list-style-type: none"> <li>Next, read the first number. For example, if your card is the 3x2, fill in the vertical line with 3 buttons.</li> </ul>	
<b>Step 3</b>	<ul style="list-style-type: none"> <li>Then, the second number indicates how many horizontal lines to fill with 3 buttons.</li> </ul>	 <p>The illustration shows a red 3x3 grid array. Several buttons are placed in the grid: three blue buttons in the first column, one white button in the second column, and one purple button in the third column. The buttons are arranged to represent the multiplication 3x3.</p>
<b>Solution</b>	<ul style="list-style-type: none"> <li>Now, count the total number of buttons you have put in the array and discuss the result with your classmates and teacher.</li> </ul>	 <p>The illustration shows the same red 3x3 grid array as in Step 3, but now with more buttons placed in it. There are three blue buttons in the first column, one white button in the second column, one purple button in the third column, and one yellow button in the fourth column. The buttons are arranged to represent the multiplication 3x4.</p>