

Lesson plan

Sort your Vegetables


Short description of the activity	Solving a problem on the concepts of size and measurement. Observation, comparison, sorting.
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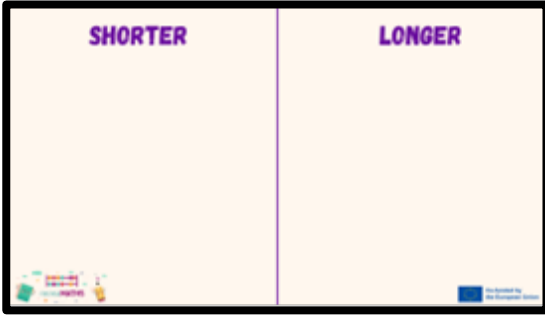
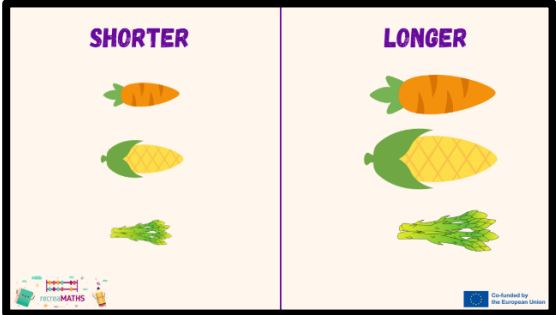
Level of difficulty	Level 1
Duration of the activity	10 minutes
Number of participants	Individual
Inventory of the hands-on exhibit	<ul style="list-style-type: none"> - 1 workshop sheet (Longer / Shorter Sheet) - 3D printed vegetables of different length

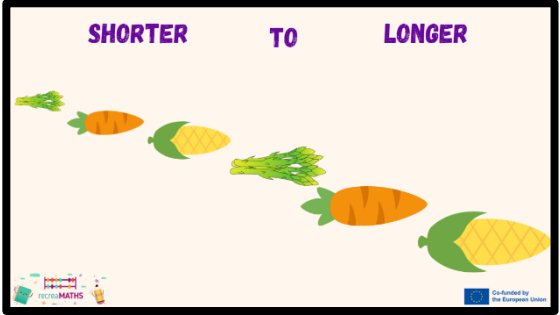
Skills required of children	<ul style="list-style-type: none"> - The child knows how to catch the objects (here the 3D printed pieces) - The child can position objects next to each other - The child knows how to pair two things according to their colour - The children can describe what they see and compare
Skills worked on	<ul style="list-style-type: none"> - The child identifies the meaning of length and learns how to compare the length of two objects. - The child learns to classify objects according to a criterion, here the difference in the length.

Instruction and description of the activity, step by step

Instruction	Compare the different vegetables and sort them according to their length.
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Step by step	Description	Illustration
Step 1	<ul style="list-style-type: none"> - <u>Making the material:</u> <ul style="list-style-type: none"> ➤ Duration: variable according to the 3D printer. - 10 hours approximately to print the 6 vegetables. - <u>Material preparation:</u> <ul style="list-style-type: none"> ➤ List what is available to the children on the table. 	
Step 2	<p><u>Conduct the activity:</u></p> <ul style="list-style-type: none"> - Put the 3D-printed vegetables on the table at the student's disposal. Make sure that each vegetable has a pair of shorter-longer pieces. 	

<p>Step 3</p>	<ul style="list-style-type: none"> - Read (or write) and explain the instructions for the activity to the children. 	
<p>Step 4</p>	<ul style="list-style-type: none"> - Once they have sorted the pieces of same colour, the teacher asks students: "Place the two pieces one above the other, starting from exactly the same point" 	
<p>Step 5</p>	<ul style="list-style-type: none"> - The teacher then hands out the worksheet to students and asks them: "Which of the two parts is longer and which one is shorter? Place the pieces onto the correct column" 	
<p>Solution</p>	<ul style="list-style-type: none"> - The child has observed the 3D printed pieces and once the 2 pieces are compared, they are positioned onto the appropriate side of the chart (shorter or longer). 	

To go further	<ul style="list-style-type: none">- Using a ruler can help measure each strip and compare them to the formal units (cm). Students can then compare all the pieces from shorter to longer.	
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Resources	https://www.teacherspayteachers.com/Product/Shorter-and-Longer-Measurement-Common-Core-KMD2-246695?st=19aa021447d6a4cdf02a989a85cea10e
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