## Lesson plan

## "Going for a walk"

| Short description <br> of the activity | Maths is everywhere! This exhibit tells the story of Sasha <br> and Max as they go for a walk in Montmartre, Paris, and <br> solve various mathematical exercises on the way. Together, <br> they study the shapes, volumes and lengths of the urban <br> environment around them amongst other things. |
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| Level of <br> difficulty | Level 2 |
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| Duration of the <br> activity | 15 min |
| Number of <br> participants | Classroom activity. (1 professor with 5 to 30 students) |
| Inventory of <br> the hands-on <br> exhibit | -1 laptop <br> -1 projector <br> -1 white board or screen |


| Digital skills required <br> of children | click |
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| Skills worked on | - quantities and measurements: |
|  | $>$ lengths |
|  | - space and geometry: |
|  | $>$ finding your way in space, |
|  | $>$ plane figures, |
|  | $>$ volumes |

Instruction and description of the activity, step by step

In this virtual workshop, several exercises are proposed. Each exercise must be solved in order to access the following ones.


| Step 3 | Exercise: <br> Calculate the length of the walk <br> Answer: 500m |  |
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| Step 4 | Exercise: <br> Identify the shape Answer: triangle |  |


| Step 5 | Exercise: <br> Identify the <br> volume <br> Answer: cylinder |
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| Step 5 |  | | Exercise: |
| :--- |
| Identify the |
| shape |
| Answer: |
| hexagon |


| Step 6 | Exercise: Find <br> the shorter <br> distance <br> Answer: 600 m |
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| Step 7 |  | | Exercise: |
| :--- |
| Calculate the |
| length of the |
| façade |
| Answer: 4 m |


| Step 9 | Exercise: Find what measure unit it is Answer: 130m | The height of the Sacré-Cœur is... $\square$ <br> 130 cm <br> 130 m <br> 130 km |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { Step } \\ & 10 \end{aligned}$ | Exercise: Find who it is <br> Answer: a | Who is who? The person we are looking for entered through stairs 1, walked 10 metres straight, took right and walked 5 metres. $\square$ $\square$ $\square$ $\square$ |
| To go further | Learn maths by | ing on even more walks here: https://mathcitymap.eu/ |


| Resources | Tutorial (to be created) for professors to contribute exercises on <br> https://mathcitymap.eu/ |
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