








## Automata for STEM

### Preparation for teacher workshop

This workshop about the **AutoSTEM** Catapult is for teachers of 6 to 8 year-olds. It will focus on mathematics including counting, addition, use of a table, measuring, and simple statistics, as well as to learn about physics and mechanisms and to develop engineering competencies of analysis and construction. You may watch the video <https://youtu.be/jf7Pyz9OunE>.

To prepare for the workshop, please, read the **AutoSTEM Step by Step Teacher Guide** that you find in five different languages on the **AutoSTEM** homepage:  
<https://www.autostem.info/step-by-step-guide/>.

In the first workshop session, you will build a catapult. Therefore, you have to prepare the following materials and tools as shown in the picture:





-  13 flat wooden sticks (about 15 cm long and 1.8 cm wide, e.g., ice cream sticks)
-  3 strong rubber bands
-  some sticky tape
-  1 bottle top
-  1 split pin (paper fastener)
-  1 nail
-  1 hammer



Alternatively, you can use:

-  4 flat wooden sticks



-  1 strong rubber band
-  1 pencil
-  1 bottle top
-  1 hot glue gun with glue

Besides, you need a small object that you can fire from the catapult. In the video you will see that we use weighted toy bears but you can use anything that will fit.