



Steam with STEAM

Challenge 2

Dear Partners, Teachers, Children,

This is the second envelope with a challenge for the next STEAMcontest. In the envelope you can find all materials to make a 'catapult of wood'. 12 frisco sticks, a wooden spoon, a fabric soft ball and a number of elastic bands.

Mission

Make a catapult that can shoot a fabric soft ball as far as possible. Use the materials for this in the envelope. Discuss in group how you can approach this.

Did this work out? Make a sketch of the construction.

There are some possible problems to solve:

- * Attachment of the elastics: how hard should the elastics be attached to keep the soda sticks together. How can that be solved?
- * Action response: The direction in which the ball is flying is to high or not sufficient.
- * Resistance: If the elastics are not attached, the catapult can't shoot the little ball.

There are some criteria during the challenge:

- You may only use the materials from the envelop during the contest, extra elastic bands may be used. A plastic spoon is also allowed.
- You can't use scissors and a cutting knife or not wooden materials except the ball, elastic bands and the spoon.



- The time for building your catapult during the contest is limited to 30 minutes.
- A maximum of only 2 children are allowed to prepare the catapult for the start when the challenge should go on during the contest in a mobility.

Extra:

Make a working design catapult with own color, art and construction when finished in the classroom and upload a video on the twinspace of the project 'steamwithSTEAM'.

SUCCESS