ISA STEAM Competition 2024

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Summary:

Task: Year 3 - 4 Design and build a device that can propel a soft toy a long distance

Name of the project: Christmas Catapult

My task was to create a device that could throw a soft toy a far distance.

My ideas developed over time. I decided that I needed a frame, a lever to move with force and a container to hold a toy.

I used a Christmas theme as the project was completed in the holidays.

I used wood for the frame and the lever as it is stronger than cardboard. I used duct tape because of its strength to keep things stable and strong.

To create tension, I used thicker elastic bands to hold the lever in place – I used further tension by using the pressure of my hand to push the container down further. When I released the elastic band – that combined tension created a great deal of force to send the toy into the air. I had to do this a few times to see which toy was the lightest to travel the furthest distance.

Please see our video in this link below:

[Kensington Wade\_Christmas Catapult.mov](https://kensingtonwade-my.sharepoint.com/:v:/p/admissions/EfCYowbw8G9KtRLfxvKLjrsBRuDaEoRR6xIaZotZBLJ20Q?e=wQbmbR)

Thank you.

Helene McSorley