

Team: 2355A

Recycling Online Challenge

Season: 2017-2018

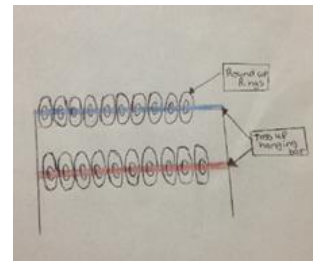


For this challenge our team used some game components to create a tool, that can be useful in a classroom. In this case we created a tool that in our school would help children from pre-Kinder to Kindergarten in their math classes, so that they can learn how to count, add or subtract simple accounts from 1 to 20. Using games components of “Round Up”, “Toss Up” and “Skyrise” we create an abacus for the pre-kindergarten classroom of our school.

An Abacus is a box with 10 rows and in each of them has 10 mobile balls. This is an instrument that helps to make simple calculations and accounts. It is believed that the Abacus was the first instrument of calculus created by human. Currently in some parts of the world this instrument is used as a teaching tool in the primary grades.



Based on our objective to help children, we designed a tool that will help kids develop mathematical skills. First, we investigate previous VRC games object that we can use. Then we designed an “abacus” with the object that we choose.



For this project we use:

- 16 blue rings of “Round Up”
- 4 red rings of “Round Up”
- 1 blue hanging bar of “Toss Up”
- 1 red hanging bar of “Toss Up”
- 1 blue cube of “Skyrise”
- 1 red cube of “Skyrise”
- 4 Plate 5x5
- 4 Standoffs 4”
- 4 Standoffs 1.5”
- 16 Screw 8-32 x 0.500”
- 4 Nut 8-32 Keps
- 4 Shaft Collar
- 4 Coupler 8-32 x 0.500”



Build process:

Step 1

Install the hanging bar post in the base made with “Skyrise” cubes.



Step 2

Using the Plate 5x5, Standoffs 4", Standoffs 1.5", Screw 8-32 x 0.500", Nut 8-32 Keps, Shaft Collar and Coupler 8-32 x 0.500" install one side of the hanging bars one of the post.



Step 3

Insert the rings in the hanging bars.



Step 4

Install the other side of the hanging bars in the other post.



<https://www.youtube.com/watch?v=Q2Ubac2Wzxw>