2nd and Third Grade Bubble Blower

## The problem:

Your 3 year old cousin is coming over and you are going to babysit. Blowing bubbles would be a great way to keep her attention. It's also her favorite thing to do. You need to create a bubble wand to help your cousin stay entertained.

## The Challenge:

You are going to design and create a bubble wand that will make many bubbles of various sizes. It will need to have structural integrity and be able to crate bubbles with the shape you have chosen.

## Criteria and Constraints:

\#1-Your 2-D blueprint design must contain labels and measurements
\#2-Your bubble wand must have structural integrity
\#3-The total length of the entire bubble wand (top to bottom including handle) must be no longer than 5 inches long
\#4-The total width of the handle must be no wider than 1 inch wide
\#5-The total width of the blower part must be no wider than 4 inches
\#6-The total thickness (depth) must not be more than 1inch
\#7-You will create your 3-D robot using Tinkercad

## Steps to follow:

\#1-Create a 2-D blueprint of your bubble blower on grid paper.
A-Label the parts -handle -blower
B-Put in the dimensions of each part mentioned above
-length of handle -width of handle -thickness of handle
-length of blower -width of blower (at widest spot) -depth of blower
-Total length (handle and blower together)
\#2-Get the blueprint approved by Mrs. Spraggins
\#4-Create your bubble wand using Tinkercad
"Create New Design"
-make sure your dimensions match your blueprint (click on "settings" and change "units" to "inches") (Custom length " 6.0 " and width " 6.0 ")
\#5-Save your design to Google Drive
-First Name, Last Inital-teacher
"Sandie, S-Spraggins"
\#6-Share with Mrs. Spraggins

