5th Grade
Personalized Keychain

The Problem:
Think about the aspects of your identity. What are your interests, hobbies, favorites? What do you like to do? What makes you individual and special? What are some things that are important to you?

The Challenge:
You are going to create a personal keychain that reflects you. You will create a blueprint, use Tinkercad to make the design, and then 3-D print your keychain. You will have to share the symbolism behind the design, the choices you made, and how your keychain represents a part of your identity. Technical accuracy will be very important.

Criteria and Constraints:
#1-Your blueprint design must contain labels and measurements
#2-Your keychain must have structural integrity
#3-The total length of your keychain may be ***no longer*** than 4.5 inches
　　and ***no wider*** than 2 inches.
#4-The ***depth*** of your keychain must not exceed ½ inch
#5-You will create your keychain using Tinkercad

Steps to Follow:
#1-Using Google Docs, list your traits, your interests, hobbies, talents, things that are important to you, favorites. Things that make you unique and special. Your list must only include school appropriate information.
#2-Next to your trait, draw a picture that would represent it (make sure it is simple so that you can duplicate it using Tinkercad)
#3-Create a 2-D blueprint of your keychain on grid paper.
　　　A-Label the parts
　　　　　-words　　　　　　　-**don't forget a hole for the chain**
　　　　　-designs　　　　　　-etc
　　　B-Put in the dimensions
　　　　　-length　　　　　　　-dimensions of letters
　　　　　-width　　　　　　　-dimentions of objects
　　　　　-height
#4-Get the blueprint approved by Mrs. Spraggins
#5-Create your keychain 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")
#6-Save your design to Google Drive
　　　-First Name, Last Inital-teacher
　　　"Sandie, S-Spraggins"
#7-Share with Mrs. Spraggins