Pasta Tower Challenge

Objective: To build the tallest freestanding tower of pasta with NO other materials, in the time given.

Materials:

- 1. Uncooked pasta (any type, and any amount-more is better-BUT you cannot have a mixture of pastas)
- 2. Some measuring device: ruler, tape measure, your foot.
- 3. Ability to convert your measurements to INCHES.
- 4. Tape of any sort.
- 5. Camera on your device.

Procedure:

- 1. In your groups, compare your pasta and make a plan. If one person does not have pasta, they get to bet the one to make design decisions.
- 2. Choose your pasta wisely! You have a limited time, and want to build the tallest tower.
- 3. Make a plan to build the tallest tower of pasta. Include your design ideas in this assignment.
- 4. Begin to build your pasta tower somewhere in which you can capture a picture to post to your assignment.
 - a. (take a photo with your chromebook or device within this document-go to INSERT→ IMAGE→ CAMERA
- 5. Add up all of your heights, and complete the data table.
- 6. Add your picture to the Google slides. This is where you will look to compare the designs of others.
- 7. When your are done, complete the reflection.

Building criteria:

- 1. You can alter your materials in ANY way, but your final design CANNOT consist of anything other than **TAPE** and **PASTA** or **MARSHMALLOWS**
- 2. You can use as MUCH pasta as you like as long as it is the **SAME TYPE**.
- 3. You can change your pasta mind part way through, but you will have to decide if that is worth the risk to start over.
- 4. Your final design must be FREESTANDING and cannot be supported by or leaning on anything else.
- 5. When time is up, the building stops.

Data table:

Highlight the tallest. (if absent look through the slides and select 3 others)

Name	Type of pasta	Height (INCHES)	Describe the design
Our teams height: (add together) If absent, just record the height of YOUR tower			

Reflection:

- 1. Which designs seemed to work the best?
- 2. How did you change or alter your design from your original plan?
- 3. What was the most difficult part of working with limited materials?
- 4. What ideas did you learn from your teammates?

5.	If you had this to do over aga materials)	ain, what would you change?	(besides more time or	