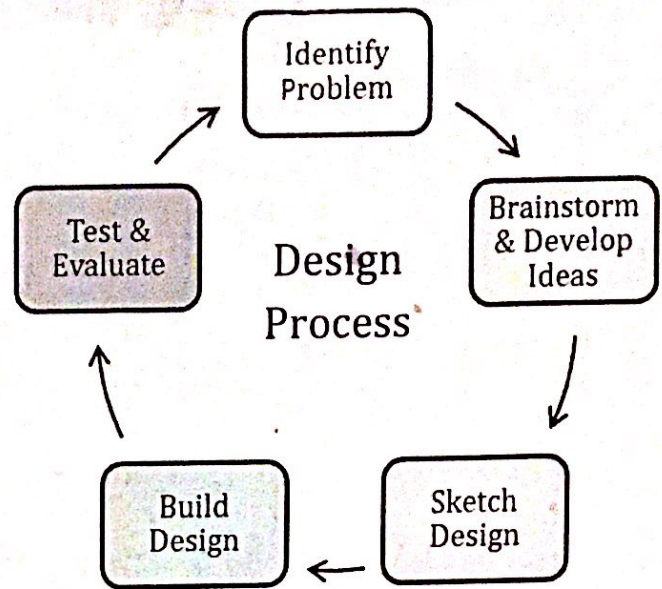


Straw Tower Project

Team members: _____



Using the design process, you are to work in your collaborative group to build the tallest free-standing tower with available resources that will withstand the weight of steel washers.

The tower that holds the most steel washers will be the winner. In case of a tie, the tallest tower will be considered the winner.

Criteria

- You have to sketch your tower design independently before sharing with your group.
- As a group, select the best design or combination of designs for the tower.
- Get tower design approved by teacher before building tower.
- You may modify your tower design during the build process, but you are required to update your sketch and initial the changes you make.
- List all materials that are being used for your tower and label tower parts.
- You are required to use the paper cup in your tower design to hold the steel washers, which has to be at least 12" off the floor (from the bottom of the cup).
- You may cut any resource.

Constraints

- You will have 10 minutes to brainstorm, sketch, and select your tower design.
- You will have 20 minutes to build your straw tower.
- You're not allowed to tape the tower to another object, including chairs, tables, or the floor.
- You may test your tower before the competition, but steel washers can't be in the cup at the beginning of the competition.
- Use appropriate tools to cut resources.

Resources

50	Small striped straws (length = 7 3/4")	4	Popsicle sticks
8	Jumbo clear straws (length = 10")	1	Meter of string
1	Paper Dixie cup	1	Meter of masking tape
4	Jumbo paper clips	2	Rubber bands
1	9" x 12" piece of construction paper		

Tools

Meter stick: used to measure the height of the tower
Scissors: used to cut straws, string, and masking tape
Wire cutter: used to cut paper clips and Popsicle sticks
Needle nose pliers: use to bend paper clips