

100th Floor Cathedral

Challenge: Your task is to build a tower that will support weights at certain heights.

Time: You will have 6 minutes to build your tower and place weights.

Time: You will have 3 minutes to plan, 5 minutes to build, and 2 minutes to add weights.

Part One (3 minutes): Spend this time discussing how your team will build the tower. Do not start building.

Part Two (5 minutes): Using only the materials provided, build a tower that will support weights at certain heights. You should not place weights at this time. Your structure should support weights at 5 in, 8 in, or 11 in above the table.

Part Three (2 minutes): Place weights on your tower at different intervals. They must last for 10 seconds to be counted.

Materials (all materials don't need to be used):

- 4 pipe cleaners
- 4 craft sticks
- 4 note cards
- 3 ft of tape
- 4 toothpicks
- 4 balloons
- 1 piece of aluminum foil
- 4 rubber bands
- 12 inches of string
- 4 plastic cups
- 4 straws
- Clothespins (to be used as weights)

You will be provided with a ruler that may not be damaged and may not be part of your solution. The weights may not be damaged and may not have the mailing labels attached to them.

General Scoring:

- Weights
- Teamwork
- Creativity
- Following guidelines