

## The Marshmallow Challenge

The task is simple: in eighteen minutes, teams must build the tallest free-standing structure out of 20 sticks of spaghetti, one yard of tape, one yard of string, and one marshmallow. The marshmallow needs to be on top.

- . ♦ **Build the Tallest Freestanding Structure:** The winning team is the one that has the tallest structure measured from the table top surface to the top of the marshmallow. That means the structure cannot be suspended from a higher structure, like a chair, ceiling or chandelier.
- . ♦ **The Entire Marshmallow Must be on Top:** The entire marshmallow needs to be on the top of the structure. Cutting or eating part of the marshmallow disqualifies the team.
- . ♦ **Use as Much or as Little of the Kit:** Your team can use as many or as few of the 20 spaghetti sticks, as much or as little of the string or tape. Your team cannot use the paper bag as part of their structure.
- . ♦ **Break up the Spaghetti, String or Tape:** Teams are free to break the spaghetti, cut up the tape and string to create new structures.
  - ♦ **The Challenge Lasts 18 minutes:** Teams cannot hold on to the structure when the time runs out. Those touching or supporting the structure at the end of the exercise will be disqualified.

At the end of the 18 minutes measure the height of your structure in inches (to the nearest  $\frac{1}{4}$  inch)

Group Number													
Height (inches)													

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Make a dot plot or box plot of the heights in inches. Be sure to label the units and give the graph a title.