



ACTIVITY DESCRIPTION: [Suggested for Knd - 5th graders]

Using the materials listed here, your goal is to make the tallest structure you can that holds up a marshmallow on the top all by itself. You can use all of the materials, but you don't have to. You can cut or break up the spaghetti, tape, and string anyway you want. Start your structure on a flat surface like a table top so you can measure how tall it is in the end.



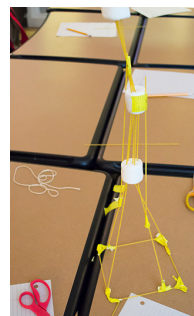
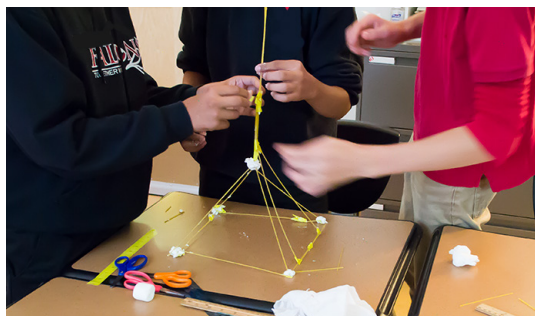
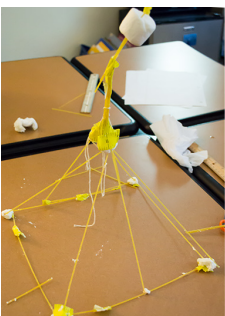
TIPS:

1.) Certain shapes do a great job of supporting weight efficiently - take a look at these bridges and see what shapes might help you:



2.) Your first idea isn't always your best idea! Try to start with with a simple idea that works and see how you can add to it as you go.

3.) If you can, team up with someone and talk about your ideas as you build. Your ideas will grow as you work together!



MATERIAL LIST

- 20 STICKS OF UNCOOKED SPAGHETTI
- 1 YARD (3FT) OF TAPE
- 1 YARD OF STRING
- 1 MARSHMALLOW
- (OPTIONAL) SAFETY SCISSORS

KEYWORDS

LOAD-BEARING - AN ELEMENT OF A STRUCTURE THAT HOLDS UP THE WEIGHT OF THE ELEMENTS ABOVE IT

COMPRESSION - TO PRESS INTO LESS SPACE; SQUEEZE CLOSELY TOGETHER

TENSION - THE ACT OF PULLING APART, OR STRETCHING

KEEP GOING!

- JOIN THE CHALLENGE TEAMS AROUND THE WORLD HAVE TRIED! SEE HOW TALL A TOWER YOU CAN CREATE IN LESS THAN 18 MINUTES.

- FEELING STUCK? CHECK OUT: [HTTPS://WWW.YOUTUBE.COM/WATCH?V=RTQR9W2PL74](https://www.youtube.com/watch?v=RTQR9W2PL74) FOR SOME INSPIRATION!

SHOW US WHAT YOU MADE! Tag us on Instagram @architecture_k_12