The Brown Bag STEM Challenge- Marshmallow Tower

Ready to build a Marshmallow Tower?  It might not be exactly what you thought! This challenge is best done with at least one other person! ☺

Materials (per team):

* 1- large marshmallow
* 1- yard of masking tape
* 1- yard of string or yarn
* 20- sticks of raw spaghetti (must be spaghetti; not spaghettini, fettucini, etc.)
* Stopwatch

Your challenge is to use the materials above to build the tallest structure that you can using the materials in the bag. You have 20 minutes (have a grown up time you) to build the tallest free-standing tower possible with the entire marshmallow on top.  Teams may work together, divide the work, assign tasks, etc.  You may break the spaghetti and/or the tape and may use as much or as little of the materials as they need.  
  
After 20 minutes, STOP! Take a yardstick and hold it next to your structure. Have someone take a picture. Email your picture to \_\_\_\_\_\_\_\_\_\_ You can plan, design, and retry as many times as you want… that’s what engineers do… It’s rarely perfect the first time and the best structure will likely come from someone who has revised multiple times.

So, what will you learn?  [National Science Standards:](http://www.nap.edu/openbook.php?record_id=4962&page=105" \t "_blank) strength of structures, scientific inquiry, applying the design process, force and motion, abilities of technological design.  Other Skills: Team-building, cooperative learning, decision making

**\*\*\*Created by Kimberly Lennox and Jayne Reck @ Porter Traditional School**