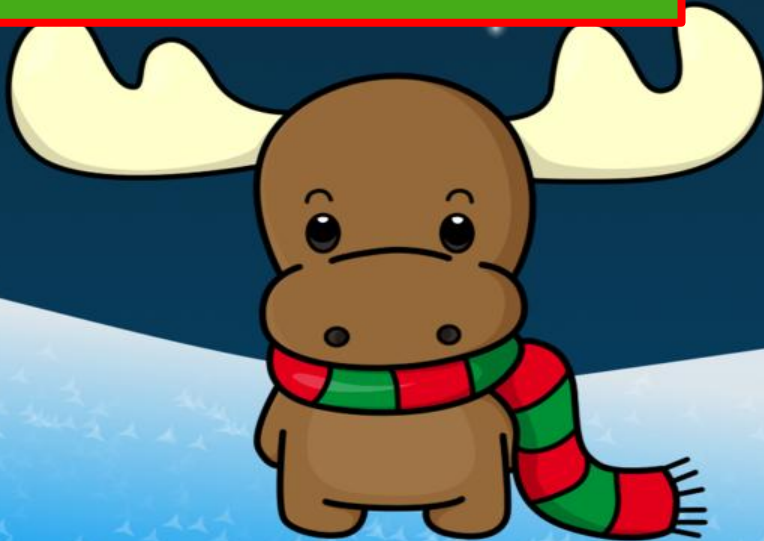


Today's Challenge

Tallest Tower Build



Tallest Tower Build Challenge

Today, your engineering design challenge is to design and construct the tallest tower possible that can also support the weight of a golf ball.



Tallest Tower Build Challenge

Many STEM projects use critical thinking skills as well as math, and engineering skills and this one is no exception. Attention to detail is a must and pre-planning is encouraged!



Christmas Paper Chain Challenge

IMAGINE/EXPLORE: BEFORE bending and ruining your supplies, brainstorm with your team what your strategy will be. You can only use the supplies given to you, so you must be creative!



Tallest Tower Challenge

Supplies:

- 25 straws
- 25 pipe cleaners
- 15 paperclips
- Golf balls available to test when you're done.



Procedure

1. Get into the groups assigned by Mrs. Queck
2. You will need: **your supplies, a piece of paper, your group.**
3. **DESIGN:** You will have 5 minutes to plan your design.
4. **CREATE:** You will have 20 minutes to build your tower
5. **TEST:** Measure and record the height of your tower, and then test to see if it supports a golf ball.



IMPROVE, TEST and EVALUATE, SHARE SOLUTION

AFTER TESTING:

Re-evaluate your plan. Was your tower the tallest? Did it support a golf ball? What could you have done differently?



Point System

- 10 points = 10 cm tower
- 5 points = every 5 cm after (height approved by Mrs. Queck)
- 10 points = supports a golf ball
- Up to 5 points = cool points (assigned by Mrs. Queck)

