# STEM challenge

### ENGINEERING CHALLENGE: CHRISTMAS TREE



# CHALLENGE:

Build the tallest Christmas tree cup structure you can, by stacking cups on top of each other. Your structure must be free-standing.

## TIME CONSTRAINT:

Planning time: 5 minutes Building Time: 15-20 minutes (or as long as desired) Reflection time: 5 minutes

### **Materials**:

100 Paper Cups Per Team (or Individual)



#### Prototype: Draw a quick sketch of your idea.

 	r	 	 	 1	

## Steps: What steps will you take to build it?

# STEM challenge

#### **Evaluate your structure:**

How tall is it?

How wide is it? \_\_\_\_\_

Rate your design:

What did you like about your design?

What would you do to improve it next time?