

Steps for Organizing and Presenting the SWE-OC Tallest Structure Contest

1. Locate a teacher who is interested in having this activity presented in the classroom. Set a date to present and notify SWE-OC Vice President if you would like assistance in presenting or organizing materials. Find out how much time you will have to present the activity.

2. Determine how many kids will be in the class you are teaching.

of kids = ____

____(**# groups**) = # of kids/5 kids per group

Assemble all the materials needed

____(**#rolls tape**) = 1* ____(# groups)

____(**#newspapers**) = 3* ____(# groups)

3. Find out what the AV capabilities are. Request a CD, overheads, or posters from section based on AV capabilities in the classroom

4. Assemble a kit with newspapers and tape per the number required in Step 2. Keep receipts and the treasurer will reimburse you.

5. Print out Surveys for each student to fill out at the end of the activity.

6. Print out 1 Career Guidance Newsletter to give to the teacher. (<http://www.swe-oc.org/CGPD/CGNewsletter/tabid/78/Default.aspx>)

7. Arrive at school and setup.

Presentation

Slide #1: Introductions

- Introduce yourself
- Say you are with the Society of Women Engineers
- Tell them what you do as an engineer

Slide #2: Overview

- Go through the Overview Slide

Slide #3: Building Techniques

- Perform examples of each method
- Show how each is stronger

Slide 5: Describe Forces

- Go through slide
- Show how if it gets too heavy it might bend. Roll tube. And push down on it with your finger.
- Blow on it from the side to simulate wind.

Slide 6: Break up the kids into teams and pass out materials:

- Start clock
- Measure all entries and declare a winner.

Slide 7: Discussion

Go through the methods used by the teams.

- What worked?
- What didn't work?
- What problems did they have?
- How did they fix the problems?
- Was this a fun activity?
- This is the type of stuff engineers do

Slide 8: Show different types of structures**Notes on Presentation Timing:**

- You'll want to get to the classroom about 10 minutes before the class is supposed to start to set up and be ready to go
- You should plan to spend 15 minutes on Slides 1-5. This time will include getting them into groups.
- There will be 15 minutes for them to complete the exercise
- Plan on spending 15 for discussion, clean-up and survey fill out.
- You may have to revise timing based on the amount of time you are allotted for a class period.