

Structure Tutorial

Challenge E: Breaking DI News

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1. Summary of Challenge:

Structure made out of **printed newsprint** and commercially available **glue**. Newsprint is a low-grade, machine-finished, printed (either black and white or color) paper made from wood pulp used chiefly for newspapers. The “glossy” advertising or magazine inserts are not considered newsprint.

- Constraints:**
- 1) Total structure weight ≤ 75 grams
 - 2) $7.5'' \leq$ structure height $\leq 9''$
 - 3) Structure must be a single unit at time of testing
 - 4) An opening that can accept a 2'' circular column must run the entire height of the structure
 - 5) When structure is initially placed on tester, it can only touch the top surface of the Tester Base, the bottom surface of the Pressure Board and the safety pole

- Scoring:**
- 1) Weight Held Ratio (i.e., WHR = Weight held in pounds divided by structure weight in grams) (team with maximum weight held ratio at tournament and level receives full 150 points)
 - 2) Structure's creativity and quality of design: up to 20 points

Story for 8 minute presentation **Cost** of on-stage materials \leq \$50

Special considerations: all props and scenery used in the Presentation must fit inside a team-provided container with rigid sides (no open sides or open top) (not more than 30"x24"x48")

Scored items:

Creativity of presentation of a Story about Newsworthy event in a nation other than own

Providing a copy of the Newsworthy Event article

Providing a container with rigid sides that is the required size

The creativity of the container which holds the props and scenery

The creative use of newsprint in a costume or prop (doesn't have to be entirely newsprint)

Scoring: up to 70 points total

2 Side Trips for presentation

Creativity and originality

Quality, workmanship, effort

Scoring: up to 60 points total

Instant Challenge

Scoring: up to 100 points

2. At the Tournament

Delivery of Props (any time before Prep/presentation)

Teams with help from TMs and parents deliver props to prop storage area

Teams prepare and fix props if necessary (no parent/TM help)

Check-in (approximate time on schedule)

Check-in will be in a separate classroom, away from the presentation site

TMs can enter, but must only be observers in background

Weigh and qualify Structure (going through checklist)

Team signs structure weight declaration

Team discusses with appraisers their experiences with Structure design and development

Appraisers score Structure creativity and quality of design

Structures stored in team-supplied containers (given instructions when to transfer to site)

If structure does not qualify, team is given option to fix structures and return to Check-in

Prep Area (20 minutes before presentation time)

Team (with help) moves all props to Prep Area and all props inside closed container

(exempt items from container: team sign, structure and structure container)

Appraiser will relax team

Appraiser will collect paperwork, make sure everything in order, descriptions for scored items clear

Appraiser will go over his/her checklist

Team gets Structure container (already at site), appraiser removes seal (paperwork)

Team moves to Launch Line with help from TMs

TMs go to assigned seats

8-minute Presentation (on schedule)

Structure placed in tester

Team removes props from container

Performance: Story about Newsworthy event

Presentation is stopped when 8-minutes expire or team has indicated both testing and presentation have finished.

Teams will always be given the opportunity to finish within the 8-minutes.

Team discusses their presentation with the Appraisers

Instant Challenge (on schedule, could be before or after Presentation)

Approximately 15 minutes before time, report to secluded IC area with TM

Teams may decide whether or not a TM can observe

Bring 1 copy of Declaration of Independence (for team identification)

Team will perform IC

Team will not discuss their IC with anyone until the end of Global Finals 2010