



## TAME DIVISIONAL MATH AND SCIENCE COMPETITION, 2014

### EVENT SCHEDULE (APPROXIMATE AND SUBJECT TO CHANGE)

- 11 a.m. Judges training
- 12:00 p.m. Students move into the auditorium for instructions.
- 12:30 p.m. Teams move to the design and construction area. They may not read instructions or touch supplies until instructed to do so.
- 12:40 p.m. Announcement will be made to start the Team Design Challenge! Teams have 45 minutes to complete the design, build and test phases.
- 1:25 p.m. Evaluation begins. **NO ADDITIONAL WORK OR TESTING CAN BE DONE AFTER TIME IS CALLED.** Please help us watch to make sure all teams stop working on their project at this time.

### TRAINING

- Review score sheet
- Demonstration of judging using models
- Break into judging teams and distribute supplies (clipboards, pens, extra forms, measuring tape)
- Assign judging areas

### JUDGES RESPONSIBILITIES DURING THE DESIGN AND BUILD PHASES

Your primary responsibilities are to make sure that the teams in your area:

- Have all listed supplies
- Follow verbal and written instructions:
  - Make sure the teams start and stop on time
  - Make sure the teams only use supplies listed in the instructions and provided by TAME
  - Make sure there is no assistance given by anybody outside of the team
- Have a legible, complete Project Documentation form

Share your enthusiasm for the students' creativity but give **no** advice on the design or construction of the project!

### JUDGES RESPONSIBILITIES DURING THE EVALUATION PHASE

You will work with another judge. All towers will be judged where they are built so you will need to move around the area looking for teams that have not been judged, testing the towers and interacting with the teams. Ask questions, celebrate creative ideas and provide positive feedback!



First, introduce yourself to the teams in your assigned area. Then, for each team:

1. Collect the Project Documentation form. This information is turned in with the score sheet.
2. Check to make sure the tower is built to the design specifications. Any violation of the rules, including use of improper materials, is an automatic disqualification. Please write “Disqualified” on the bottom of the score sheet and notify your lead judge if this occurs.
3. Record the height of the tower from the floor or table top to the lowest point of the container.
4. The Test Engineer from the team will place weights in the container one at a time.
5. Judging will continue until one of the following situation occurs:
  - Any weights fall out of the container
  - The container falls off of the tower
  - The height of the tower is reduced by an inch or more
6. Make sure that you have both the Project Documentation form and Scoring Sheet for the project. Make sure that both forms have the correct team number on them.

Congratulate the team on a job well done and release them to get a snack and complete an evaluation for the event.

#### NOTES, TIPS, KEY RULES

- The container to hold the weights may not be modified in any way.
- The base of the container must be a minimum of 8 inches off the ground.
- No parts of the tower can be attached (via tape, adhesive, etc.) to the floor, walls or any external structure. The tower must be able to stand on its own throughout the duration of judging.
- ONLY the supplies specified in the Materials List may be utilized as part of the tower.
- Teams may not make modifications to their tower during the judging phase.

#### JUDGES RESPONSIBILITIES AFTER ALL PROJECTS HAVE BEEN TESTED

Turn in your Scoring Sheets and Project Documentation forms to **the lead judge**. They will collate the data and identify the winners. Please complete an evaluation form for our event. We value your input. You can turn in your evaluation with your score sheets. If you have a few minutes to collapse tables and put away chairs, please stay and help.

**Thank you for volunteering. Your time and effort are truly appreciated!**