

# ENGINEERING MODEL – TENNIS BALL TOWER DESIGN EVALUATION FORM

Team Name's:

Team's School:

Team's Teacher:

Level I or II (circle)

ID # \_\_\_\_\_

## RULES AND REGULATIONS CHECKLIST

Check items/requirements met:

- \_\_\_\_\_ 1.Entries may be individual or a maximum of two (2) students.
- \_\_\_\_\_ 2.Time limit for construction ON-SITE will be 30 minutes.
- \_\_\_\_\_ 3.Straws, tape, and tennis ball will be provided for each team or individual.
- \_\_\_\_\_ 4.The tower must be free standing.
- \_\_\_\_\_ 5.The tower cannot be taped to the floor or any other support.
- \_\_\_\_\_ 6.The tower must support a tennis ball at it's top for 30 seconds during testing.
- \_\_\_\_\_ 7.Scissors are the only cutting tool allowed during construction. These are to be provided by the student.
- \_\_\_\_\_ 8.Documentation must be typed or produced electronically. Drawings and sketches can be done by hand.
- \_\_\_\_\_ 9.Documentation of the problem solving process used in developing the model must be provided to the coordinator. Documentation should be done prior to on-site competition.

## JUDGE SCORING:

Awards will be determined by the tallest height achieved, after supporting a tennis ball for 30 seconds.

- \_\_\_\_\_ 10.Definition of problem - 5 points
- \_\_\_\_\_ 11.Information and data - 10 points
- \_\_\_\_\_ 12.Goal statement - 5 points
- \_\_\_\_\_ 13.Written and sketched solutions - 5 points
- \_\_\_\_\_ 14.Written information and sketches of chosen solution - 10 points
- \_\_\_\_\_ 15.Evaluation statements - 5 points
- \_\_\_\_\_ 16.Height ranking - 1st, 60 pts.; 2nd, 55 pts.; 3rd, 50 pts.; 4th, 45 pts.; 5th, 40 pts.; etc..

\_\_\_\_\_ **ANY RULES AND REGULATION CHECKLIST VIOLATION (-20 POINTS)**

\_\_\_\_\_ **TOTAL POSSIBLE - 100 POINTS**

\_\_\_\_\_ **ENTRY RANKING**