

## Spontaneous Problem: Paper Play

- A. When the team enters the room, tell them, “This is a Hands-On problem. In an actual tournament you would have one minute to select five team members to compete. The others would leave or stay to watch, sitting in seats away from the table. If they stayed in the room, they could not assist in solving the problem and could not talk at ANY time.”

*Note To Judge: All team members can participate in the Spontaneous Fair.*

### B. JUDGE READS TO TEAM:

1. You will have 10 minutes to work on this problem. You may ask questions during this time, but time will continue. You may talk to each other at any time.
2. **Your problem is to construct three structures each consisting of 7 sheets of paper.**
3. The first structure will be measured height and must be supported by the floor or table surface only.. The team will determine when they want the structure measured within the 10 minute time limit.
4. The second structure will be measured for length and must be self-supported at least one inch above the floor or table. .. The team will determine when they want the structure measured within the 10 minute time limit.
5. The third structure must be as compact as possible using all 7 sheets of paper and will be measured and scored at its tallest and widest points. The team will determine when they want the structure measured within the 10 minute time limit.
6. Only the paper provided may be used in the structures. No other materials may be used.
7. Scoring will be as follows:
  - 1 point for each inch in height the first structure reaches
  - PLUS
  - 1 point for each inch in length the structure spans
  - MINUS.
  - 1 point for each inch in height plus length
  - and
  - 1-10 points for teamwork

### C. FOR JUDGES ONLY

1. Before the team enters the room, place the following materials on the table:
  - 3 stacks of paper – 7 pieces in each stack
2. During discussion time, talk about teamwork. If teammates get frustrated because they're having problems solving the problem and get a 0 on teamwork, even if they complete the task, they may score less than a team with great teamwork that does not complete the task



## Team Copy

1. You will have 10 minutes to work on this problem. You may ask questions during this time, but time will continue. You may talk to each other at any time.
2. **Your problem is to construct three structures each consisting of 7 sheets of paper.**
2. The first structure will be measured for height and must be supported only by the floor or table. The team decides when the structure will be measured – within the 10 minute time limit.
3. The second structure will be measured for length. It must be self-supported at least 1 inch above the floor or table. The team decides when the structure will be measured – within the 10 minute time limit.
- 4The third structure must be as compact as possible – using all 7 sheets of paper. It will be measured at its tallest and widest points. The team decides when the structure will be measured – within the 10 minute time limit.
5. Only the paper provided may be used in the structures. No other materials may be used.
8. Scoring will be as follows:
  - 1 point for each inch in height the first structure reaches
  - **PLUS**
  - 1 point for each inch in length the second structure spans
  - **MINUS**
  - 1 point for each inch of width plus height of the third structure.
  - **PLUS**

- 1-10 points for teamwork

# Scoresheet – PaperPlay

Structure 1 Height (in inches) \_\_\_\_\_

**Plus**

Structure 2 Length (in inches) \_\_\_\_\_

**Minus**

Structure 3 Height (in inches) (\_\_\_\_\_)

**Minus**

Structure 3 Width (inches) (\_\_\_\_\_)

**Plus**

Teamwork (1-10) \_\_\_\_\_

**Total Points**

\_\_\_\_\_

Comments: