

Destination ImagiNation®

Instant Challenge

2005 Affiliate Competition – Advanced Level

HORIZONTAL AND VERTICAL

Challenge: Your **TASK** is to build 2 “free-standing” structures that are as tall as possible. One structure will become a bridge, the other will be supported by the bridge. For the purpose of this Challenge, “free-standing” means that the structures are not attached to anything.

Time: You will have up to 5 minutes to use your **IMAGINATION** to build the structures and up to 2 minutes to move the structures to new positions.

Set-up: In the center of the room is a table with materials and two taped squares. On a second table are two wooden blocks separated by a gap.

Procedure:

•**Part One** (5 minutes): Use the materials to build 2 free-standing structures that are as high as possible. Each structure needs to be placed inside one of the taped squares. You will be warned when you have 1 minute remaining and 30 seconds remaining. **You must have at least one structure within a taped area at the end of Part One in order to proceed to Part Two.** At the end of Part One, the Appraisers will measure the heights of each structure.

•**Part Two** (2 minutes): Move the structures into new positions. One of the structures should be turned horizontally in order to span the gap between the 2 blocks. The blocks may NOT be moved. The other structure should be placed vertically on top of the 1st structure so that it is in the center of the gap between the 2 blocks. It is your choice which structure is placed horizontally and which is placed vertically. Pieces of structure may fall off as they are being moved to their new positions, but you may NOT rebuild either of the structures. Time will end at 2 minutes, or earlier if the team wishes. The second structure must be supported for at least 10 seconds in order to receive score.

Materials:

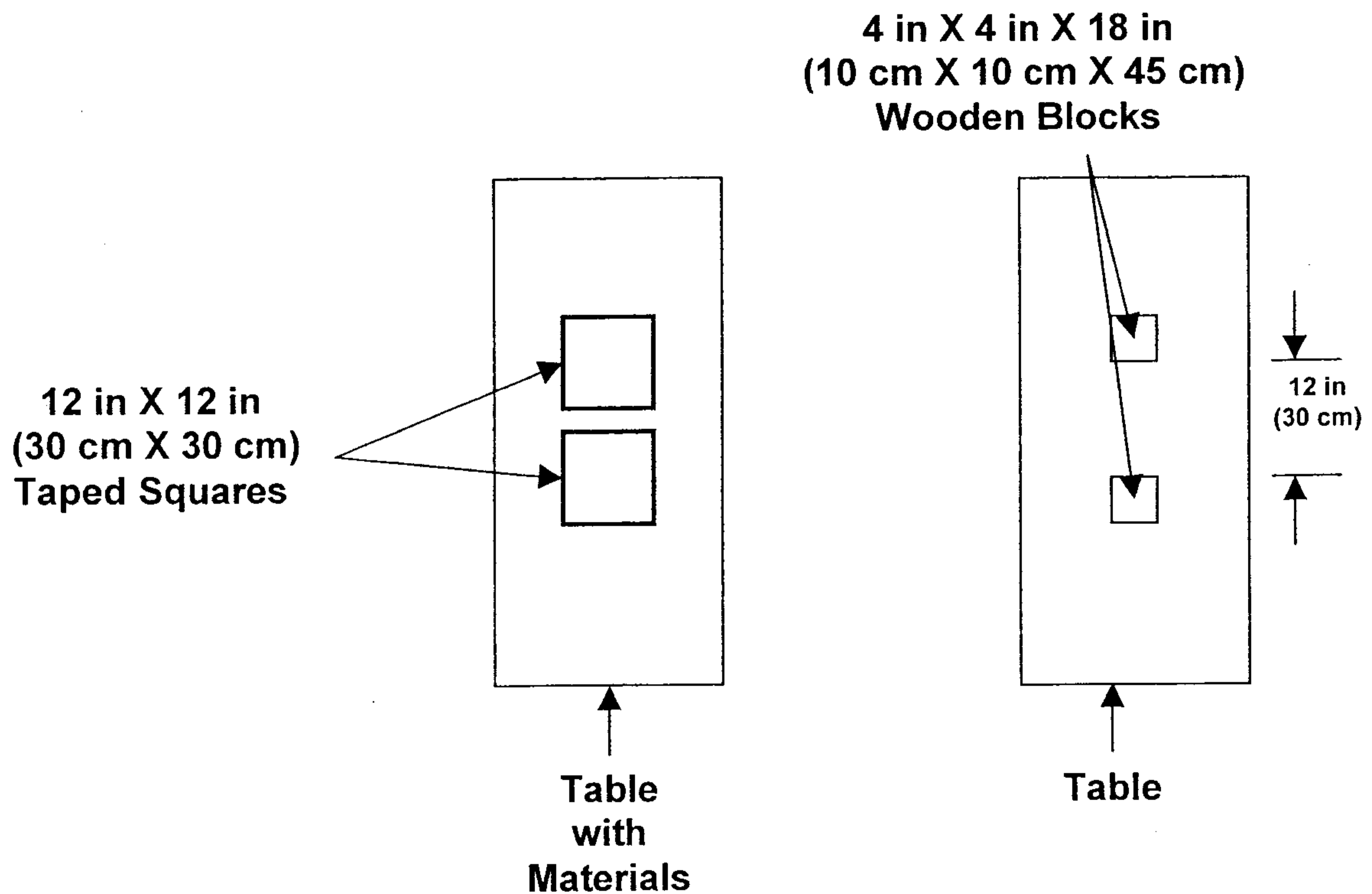
1 Sheet of Newspaper	6 Straws	2 Paper Cups	3 Index Cards	1 Pencil
2 Chenille Sticks (Pipe Cleaners)	3 Paper Clips	4 Mailing Labels	2 Envelopes	2 Plastic Forks

Scoring: You will receive

- 1 point (40 points maximum) for each inch (2.5 cm) of height of your structures at the end of Part One.
- 10 points if one structure spans the gap horizontally.
- 10 points if one structure sits vertically on top of the horizontal structure in the center of the gap.
- Up to 20 points for how creatively you attempt to solve the **TASK**.
- Up to 20 points for how well your team works together.

For Appraisers Only:

1. The set-up consists of a table with materials and two 12 in X 12 in (30 cm X 30 cm) taped squares in the middle of the room. Two 4 in X 4 in X 18 in (10 cm X 10 cm X 45 cm) wooden blocks that are 12 in (30 cm) apart are sitting on a second table.



2. In Part One, the team should be warned when there is 1 minute remaining and when there is 30 seconds remaining. At each time, an Appraiser should say, "You must have at least one structure within a taped area at the end of Part One in order to proceed to Part Two."

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Set-up: In the center of the room is a table with materials and two taped squares. On a second table are two wooden blocks separated by a gap.

Procedure:

Part One (5 minutes):

- Use the materials to build 2 free-standing structures that are as high as possible.
- Each structure needs to be placed inside one of the taped squares.
- You will be warned when you have 1 minute remaining and 30 seconds remaining.
- **You must have at least one structure within a taped area at the end of Part One in order to proceed to Part Two.**
- At the end of Part One, the Appraisers will measure the heights of each structure.

Part Two (2 minutes):

- Move the structures into new positions.
- One of the structures should be turned horizontally in order to span the gap between the 2 blocks. The blocks may NOT be moved.
- The other structure should be placed vertically on top of the 1st structure so that it is in the center of the gap between the 2 blocks.
- It is your choice which structure is placed horizontally and which is placed vertically.
- Pieces of structure may fall off as they are being moved to their new positions, but you may NOT rebuild either of the structures.
- Time will end at 2 minutes, or earlier if the team wishes. The second structure must be supported for at least 10 seconds in order to receive score.

Scoring: You will receive

- A. 1 point (40 points maximum) for each inch (2.5 cm) of height of your structures at the end of Part One.
- B. 10 points if one structure spans the gap horizontally.
- C. 10 points if one structure sits vertically on top of the horizontal structure in the center of the gap.
- D. Up to 20 points for how creatively you attempt to solve the **TASK**.
- E. Up to 20 points for how well your team works together.

HORIZONTAL AND VERTICAL

Materials:

(Tape to Table)

1 Sheet of Newspaper

6 Straws

2 Paper Cups

3 Index Cards

1 Pencil

2 Chenille Sticks (Pipe Cleaners)

3 Paper Clips

4 Mailing Labels

2 Envelopes

2 Plastic Forks

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HORIZONTAL AND VERTICAL APPRAISER RUBRICS

RUBRIC FOR APPRAISING HOW CREATIVELY TEAM ATTEMPTS TO SOLVE THE TASK

Points	1 – 5	6 – 10	11 – 15	16 – 20
Qualities	<ul style="list-style-type: none">• Creativity is present and it's somewhat enhanced• The solution applies	<ul style="list-style-type: none">• Creativity is present and it's relevant• The solution is complete	<ul style="list-style-type: none">• Creativity is present and it's integrated• Chiefly original work	<ul style="list-style-type: none">• Creativity is there and it's innovative• AHA! WOW!

RUBRIC FOR APPRAISING TEAMWORK

Points	1 – 5	6 – 10	11 – 15	16 – 20
Qualities	<ul style="list-style-type: none">• Dominating individual who limits participation of others• Cooperation is minimal• Little sharing of ideas	<ul style="list-style-type: none">• Some evidence of individual team member roles• Some cooperation• Some evidence of accepting ideas of others	<ul style="list-style-type: none">• Acceptance of team roles above average• Good cooperation• Sharing and acceptance of ideas of others	<ul style="list-style-type: none">• Leadership and team roles are easily identified• Diversity of skills mutually respected and evident• Team dynamics are exemplary

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Team Name: _____ Level: E M S U

Passport Number: _____ Team Challenge: _____

Appraiser's Name: _____

HORIZONTAL AND VERTICAL

INSTANT CHALLENGE INDIVIDUAL SCORE SHEET

Score Element	Range	Team Score
A. _____ # of inches (2.5 cm) in height of structures	_____ X 1 (40 Points Maximum)	
B. One structure spans the gap horizontally	0 or 10	
C. One structure sits vertically on top of horizontal structure in the center of the gap	0 or 10	
D. How creatively the team attempts to solve the TASK	1 – 20	
E. Teamwork	1 – 20	
Total		

Note: Team score elements should be recorded in whole numbers. (No fractions or decimals.)

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Team Name: _____ Level: E M S U

Passport Number: _____ Team Challenge: _____

HORIZONTAL AND VERTICAL

INSTANT CHALLENGE MASTER SCORE SHEET

Appraiser's Name	Total Score
1.	
2.	
3.	
4.	
Add 1 + 2 + 3 + 4	F.
Divide F by # of Appraisers	G.

NOTE: The division in the final step should be carried out to 3 decimal places.

INSTANT CHALLENGE SCORE

H.

NOTE: Rewrite the final score in the box above. The final score should be rounded to 2 decimal points. Round up if the third decimal is 5 or more.