

**Destination ImagiNation®**  
**Instant Challenge**

2004 Regional Competition - Advanced Level

# A BRIDGE OF YOUR CHOICE

**Challenge:** Your **TASK** is to build a bridge between 2 tables that will support weight.

**Time:** You will have up to 6 minutes to use your IMAGINATION to build your bridge and up to 2 minutes to add weight.

**Set-up:** In the center of the room are 2 tables separated by a gap. A wooden peg has been attached to the ends of each table nearest each other. On one of the tables are materials from which you may choose to build a bridge that connects the 2 wooden pegs, along with a container and 20 nails to use as weights.

## Procedure:

•**Part One** (6 minutes): **Use only 2 types of materials** to build a bridge that spans the gap between the 2 tables. The bridge may only touch the 2 pegs. You will be warned when you have one minute and when you have 30 seconds left in Part One. **In order to proceed to Part Two, you must have a bridge spanning the gap between the 2 tables by the end of Part One.**

•**Part Two** (2 minutes): Add weights for score. One of your team members should hang the container somewhere on the bridge. The container may NOT touch the tables or the pegs. If the bridge holds the container for 10 seconds, you may add weights to the container one at a time. You should wait at least 2 seconds before adding each weight. Time will end after 2 minutes, if the bridge falls down or touches the table, if the container touches the pegs or table, or if all the weights have been added.

## Materials: (You may only use 2 types of materials to make your bridge!)

4 Sheets of Paper  
4 Coffee Stirrers

1 Mailing Label  
2 Index Cards

1 Pencil  
1 Rubber Band

2 Paper Clips  
2 Chenille Sticks  
(Pipe Cleaners)

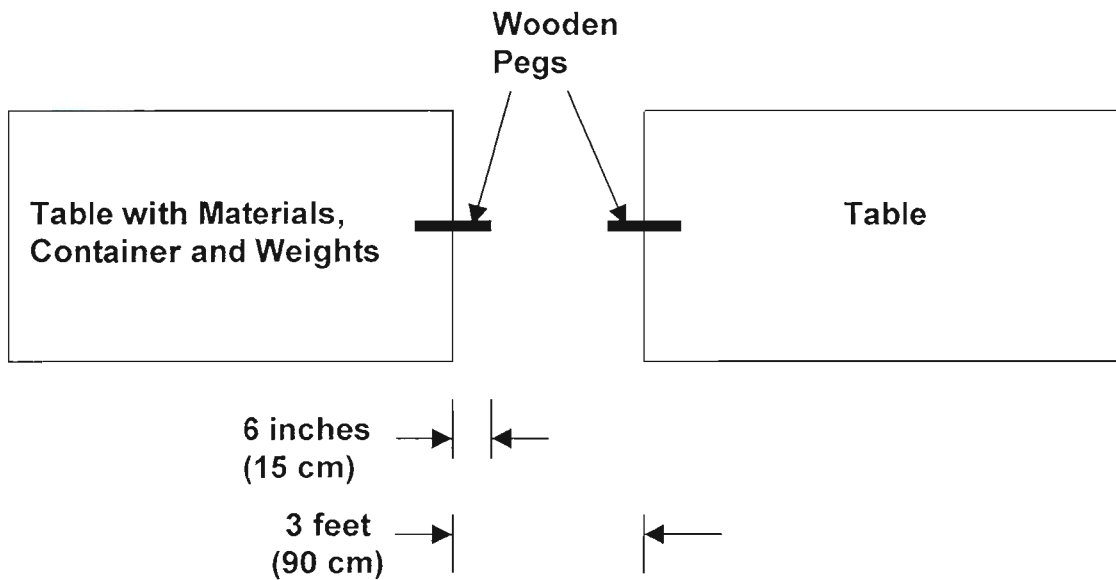
In addition, you will have a container and 20 nails to use as weights. The mailing labels may NOT be attached to the pegs.

**Scoring:** You will receive

- A. 20 points if you have a bridge made of only 2 materials between the 2 tables at the end of Part One.
- B. 10 points if your bridge supports the container for at least 10 seconds.
- C. 2 points (40 points maximum) for each weight that your bridge holds for at least 2 seconds.
- D. Up to 20 points for the creativity of your bridge.
- E. Up to 20 points for how well your team works together.

## For Appraisers Only:

1. The set-up consists of a 2 tables separated by 3 feet (90 cm). A wooden peg is attached with tape to each of the ends of the tables nearest each other. On one of the tables are materials that may be used to build the bridge, along with a small container that has a hook attached to it, and 20 6 inch (15 cm) nails.



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**Set-up:** In the center of the room are 2 tables separated by a gap. A wooden peg has been attached to the ends of each table nearest each other. On one of the tables are materials from which you may choose to build a bridge that connects the 2 wooden pegs, along with a container and 20 nails to use as weights.

**Procedure:**

**Part One** (6 minutes):

- **Use only 2 types of materials** to build a bridge that spans the gap between the 2 tables.
- The bridge may only touch the 2 pegs.
- You will be warned when you have one minute and when you have 30 seconds left in Part One.
- **In order to proceed to Part Two, you must have a bridge spanning the gap between the 2 tables by the end of Part One.**

**Part Two** (2 minutes):

- Add weights for score.
- One of your team members should hang the container somewhere on the bridge.
- The container may NOT touch the tables or the pegs.
- If the bridge holds the container for 10 seconds, you may add weights to the container one at a time.
- You should wait at least 2 seconds before adding each weight.
- Time will end after 2 minutes, if the bridge falls down or touches the table, if the container touches the pegs or table, or if all the weights have been added.

**Scoring:** You will receive

- A. 20 points if you have a bridge made of only 2 materials between the 2 tables at the end of Part One.
- B. 10 points if your bridge supports the container for at least 10 seconds.
- C. 2 points (40 points maximum) for each weight that your bridge holds for at least 2 seconds.
- D. Up to 20 points for the creativity of your bridge.
- E. Up to 20 points for how well your team works together.

A BRIDGE OF YOUR CHOICE

**Materials:**

(Tape to Table)

**(You may only use 2 types of materials to make your bridge!)**

4 Sheets of Paper

1 Mailing Label

1 Pencil

2 Paper Clips

4 Coffee Stirrers

2 Index Cards

1 Rubber Band

2 Chenille Sticks (Pipe Cleaners)

In addition, you will have a container and 20 nails to use as weights. The mailing labels may NOT be attached to the pegs.

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*Instant Challenge*  
**A BRIDGE OF YOUR CHOICE**  
**APPRAISER RUBRICS**

**RUBRIC FOR APPRAISING CREATIVITY OF MATERIAL USE**

Points	1 – 5	6 – 10	11 – 15	16 – 20
<b>Qualities</b>	<ul style="list-style-type: none"> <li>Materials chosen are used in common ways</li> </ul>	<ul style="list-style-type: none"> <li>Materials chosen are used in somewhat unusual ways.</li> </ul>	<ul style="list-style-type: none"> <li>Materials chosen are used in unusual ways</li> </ul>	<ul style="list-style-type: none"> <li>Materials chosen are used in very unusual ways</li> </ul>

**RUBRIC FOR APPRAISING TEAMWORK**

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

## Destination ImagiNation®

Team Name: \_\_\_\_\_ Level: E M S U

Passport Number: \_\_\_\_\_ Team Challenge: \_\_\_\_\_

Appraiser's Name: \_\_\_\_\_

### A BRIDGE OF YOUR CHOICE

### INSTANT CHALLENGE INDIVIDUAL SCORE SHEET

Score Element	Range	Team Score
A. Bridge successfully spans gap at the end of Part One	0 or 20	
B. Bridge supports container for at least 10 seconds	0 or 10	
C. _____ # of nails supported by bridge for at least 2 seconds	_____ X 2 (40 Points Maximum)	
D. Creativity of material use	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: \_\_\_\_\_

Appraiser's Name: \_\_\_\_\_

### A BRIDGE OF YOUR CHOICE

#### ***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.

<b><i>INSTANT CHALLENGE SCORE</i></b>
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H.
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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.