

## Destination Imagination Instant Challenge – Mar 2005

Type: **Build**

Title: *Wider Bridge*

Difficulty: **Medium**

**Prepare:** Provide each team one Challenge Bag with mini-marshmallows, 2 sheets of paper, and pretzel sticks. Provide each team two blocks of wood (2" x 4" x 6") placed on the table exactly six (6) inches apart. Bring a bag of ~50 hard candy pieces for testing (do not put the candy in the bag).

**Read:** “Welcome to our Instant Challenge, where you will have the opportunity to demonstrate your creativity and skills by “bridging ideas to the future”. For every team who is competing in your Team Challenge at your competition level, we will be presenting this Instant Challenge today.”

**The Scene:** “The Wider River needs a new bridge to carry traffic. Your construction crew has been asked to demonstrate a new bridge design.

**The Challenge:** “Using only the items in your Challenge Bag; design and build a bridge and demonstrate its strength.”

**The Time:** “Your team will have 2 minutes to talk about your bridge solution during which you will be not permitted to touch the materials. Your team will then have 6 minutes to construct your bridge, without moving the wood blocks. Then, present your design to the officials in a two minute skit. During a two-minute presentation, introduce your bridge with a creative name, then demonstrate the strength of the design by stacking cars (candy pieces) on top of it. Good Luck and listen for the time signals from the Challenge Master!”

**Scoring:** “The Appraisers will be scoring in the following areas, teamwork displayed during planning and construction, creativity of your bridge, creativity of your bridge name, and number of cars held by the bridge.

**Items to be used:**

“Only the items provided in the Challenge bag may be used to construct instruments. Do NOT move the wood blocks during your construction.”

**Scoring will be as follows: (Scoring performed by team manager)**

	<i>Element:</i>	<i>Points:</i>	<i>Team Score:</i>	<i>Comments:</i>
A.	Teamwork	1-10		During talk and build time
B.	Creativity of the bridge design:	1-10		
C.	Creativite of the bridge name:	1-10		
D.	Each car (candy) successfully held by the bridge:	1		15 point maximum
E.	Bonus:	5		Holding 10 or more cars
	TOTAL:			

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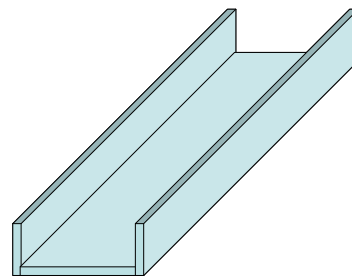
### *Manager's Notes*

These are questions to ask your team during the critique after the team presents their solution.

#### **The Challenge:**

- 1) “Using only the items in your Challenge Bag...” *Did you make the best use of ALL materials provided? What items did you not use? Did you attempt to use the Challenge Bag as a part of your bridge design?*
- 2) “...design and build a bridge ...” *Did you build your bridge as planned during talk time? Any problems? How did your team respond to problems?*
- 3) “... introduce your bridge with a creative name...” *Did your team notice that a creative name was worth as many points as a creative bridge design?*
- 4) “...demonstrate the strength of the design by stacking cars...” *Was your team successful at stacking 5 cars on the bridge? 10 cars? More? If not, why not?*

**NOTE The Shape!:** This is a great time to show your team the effect shape has on strength. *Fold one sheet of paper length wise in half, then again lengthwise in half, then again fold lengthwise into a letter-U shape. Place just this sheet of paper across the wood blocks and show how it can hold many “cars”. Does your team understand how strength can come from shape?*



**The Time:** *Did you make the best use of the time allowed for planning? How did not being allowed to touch the materials during planning time affect your team? Did you pick a time keeper?*

**The Scene:** *Did your team have a method for quickly generating ideas for a bridge? Did your team consider all suggested ideas for a bridge?*

**Teamwork:** *Did you have a leader? What could make you a more effective team during build-type instant challenges? Did every team member have a job?*