

LONDON BRIDGE

A TASK based Instant Challenge

Challenge: Your TASK is to build 2 towers with a bridge between them that will support an object.

Set-up: There is a table with building materials.

Procedure: Alert! The Tower Bridge in London has been destroyed. Your team has been selected to design and build a new Tower Bridge for London.

Timing:

Part 1 (7 min):

- Use the material provided to build 2 towers with a bridge between them that must support a car. This car is represented by a wood block.
- You may not attach anything to the wood block.
- You may build on the table or the floor, but nothing may be attached to the table or floor.
- The base of each tower must fit on a large index card that sits on the table or floor. At no time should the deck of the bridge touch the floor or table.
- The bridge must be at least 12 inches long, measured from one index card edge to the nearest index card edge.
- At the end of Part 1, the length of the bridge and the height of the towers will be recorded for score.

Part 2 (2 min):

- You may make changes to any of your structures, but they will not be re-scored for length or height.
- Balance the “car” on the bridge for 10 seconds, measured by the Timekeeper.
- The “car” must balance on the bridge, not hang from it.
- You can make as many attempts to balance the car for 10 seconds as time will allow.

Materials:

- 2 sheets of paper
- 2 chenille stems
- 8 drinking straws
- 1 piece of aluminum foil
- 2 large index cards - *only to be used for the base of the towers.*
- 1 “car” (wood block - approx. 2" x 2" x 2") *that may not be changed in any way*
- 4 paper clips
- 1 standard envelope
- 10 spaghetti noodles
- 2 pencils
- 4 craft sticks
- 4 mailing labels
- 2 paper cups
- 1 balloon

Scoring: You will receive

- A. 1 point for each inch of height of both towers (40 points max.).
- B. 1 point for each inch of length of the bridge (20 points max.).
- C. 10 points for balancing the “car” on the bridge for 10 seconds.
- D. Up to 10 points for the creativity of the overall structures you have built.
- E. Up to 20 points for how well your team worked together.