

Destination ImagiNation® BREAKING POINT

Challenge: Your **TASK** is to build a free-standing structure that is as tall as possible and that when turned on its side and balanced on a brick, will support weights added to both ends.

Time: You will have up to 4 minutes to use your IMAGINATION to design and build your structure and to place it in a taped area, then up to 1 minute to balance the structure on a brick and finally up to 2 minutes to add weights to both ends.

Set-up: In the middle of the floor is a taped area in which to place your structure by the end of Part One. Next to the taped area is a brick that you must balance your structure on in Part Two. There is also a table with materials you may use to build your structure and 10 sets of weights.

Procedure:

Part One (4 minutes):

- Using the materials on the table, build a free-standing structure that is as high as possible and place it in the taped area. **IN ORDER TO ADVANCE TO PART TWO, THE TEAM MUST HAVE A FREE-STANDING STRUCTURE WITHIN THE TAPED AREA BY THE END OF PART ONE.**
- You may test your structure on the brick in Part One if you wish.
- Your team will be warned when you have 1 minute remaining and when you have 30 seconds remaining.
- At the end of Part One, the Appraisers will measure the height of your structure.

Part Two (1 minute):

- Move the structure to the brick and balance the structure on the brick so that part of the structure extends out over both sides of the brick. The structure may only touch the brick.
- Pieces of the structure may fall off during this move without penalty but you may not change the structure in any other way.
- At the end of Part Two, the Appraisers will measure how far your structure extends out over each side of the brick.

Part Three (2 minutes):

- Add sets of weights to each end of the structure at the same time until
 - a) the structure breaks,
 - b) the weights or the structure touches the floor or one of the sides of the brick,
 - c) 10 sets of weights have been added (5 on each end),
 - d) a team member touches the structure or the weights on the structureor e) time ends.

Scoring: You will receive

- A. 10 points if you have a free-standing structure within the taped square at the end of Part One.
- B. 1 point for each inch (2.5 cm) of height of your structure (30 points maximum)
- C. 20 points for the creativity of your structure.
- D. 1 point for each inch (2.5 cm) that your structure extends out over each side of the brick (20 points maximum).
- E. 1 point for each set of weights that your structure supports (10 points maximum).
- F. Up to 20 points for how well your team works together.

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Materials:

(Tape to Table)

6 Straws

4 Craft Sticks

10 Pieces of Spaghetti

10 Toothpicks

1 Paper Plate

1 Paper Cup

12 in (30 cm) of String

2 Mailing Labels

2 Rubber Bands

1 Piece of Foil

1 Sheet of Paper