

Destination ImagiNation®

Instant Challenge

D2K1 - DINAMIC IMPROV - Elementary Level

HURRICANE

Challenge: Build two structures, one that will be demolished by wind and the other that can withstand a blow.

Time: You will have up to 6 minutes to use your IMAGINATION to build your structures and one minute to submit them to the hurricane.

Set-up: On the floor are two taped areas, each containing a wooden block. One block is labeled straw and the other bricks. Fans are positioned next to each taped area. In addition, there is a table with materials that you can use to build your structures.

Procedure:

- Part 1 (6 minutes): Using the materials provided, you are to build two structures. Each structure must go completely around each of the blocks, be as tall as possible and not extend outside the taped area. You will receive score for the combined heights of your structures.
- Part 2 (1 minute): Your team will stand away from the structures. An Appraiser will turn on fans to create "hurricane" conditions around each of the structures. You will receive additional score if the structure built around the straw block is demolished by the hurricane, and if the structure built around the brick block can withstand the storm.

Materials:

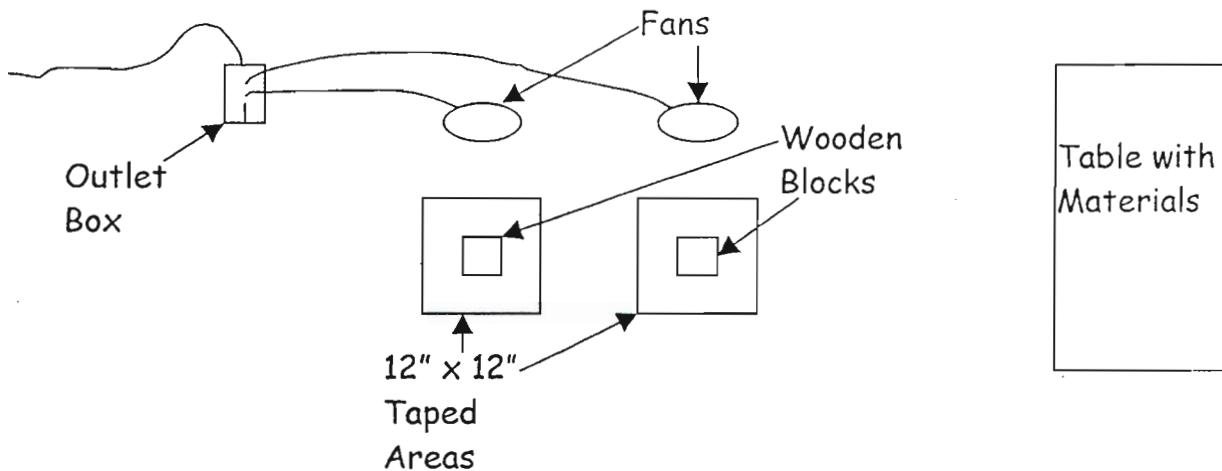
20 Paper clips	6 Straws
4 Paper plates	8 Popsicle® sticks
10 Index cards	1 Pair of scissors (MAY NOT be damaged)
8 Mailing labels	2 Wooden blocks (MAY NOT be damaged)
	2 Fans (MAY NOT be damaged)

Scoring: You will receive

- 2 points for each full inch of height in the two structures
- 15 points if the structure built around the straw block no longer goes completely around the block after the "hurricane."
- 15 points if the structure built around the brick block still goes completely around the block after the "hurricane."
- Up to 20 points for how creatively you use the materials.
- Up to 20 points for how well your team works together.

For Appraisers only:

1. The set-up consists of a table with the materials at one end of the room. In addition, there are two 12" x 12" taped areas each containing a 4" x 4" x 18" block. One of the blocks is labeled "straw," the other "brick." In addition, 6" away from each taped area is a fan taped to the floor. The fans are plugged into an outlet box that allows both fans to be turned on simultaneously.



2. The height of each tower can best be measured by holding a tall pole perpendicular to the floor and then holding a stick perpendicular to the pole at a height equal to the height of the tower. A mark can be made on the pole corresponding to this height, and the height then measured with a measuring tape.

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APPRAISER RUBRICS

RUBRIC FOR APPRAISING CREATIVITY OF MATERIAL USE

Points	1 - 5	6 - 10	11 - 15	16 - 20
Qualities	<ul style="list-style-type: none"> Some of the materials are used in common ways 	<ul style="list-style-type: none"> Almost all materials are used but few in unusual ways Materials are rarely combined 	<ul style="list-style-type: none"> Almost all materials are used, several in unusual ways Several materials are combined, but rarely more than once 	<ul style="list-style-type: none"> Most materials are used in unusual ways Many materials are used in combination, several more than once

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

Team Name: _____

Passport Number: _____ Appraiser's Name: _____

HURRICANE

INSTANT CHALLENGE INDIVIDUAL SCORE SHEET

Score Element	Range	Team Score
A. Height in inches of Straw Structure _____	_____ X 2	
Height in inches of Brick Structure _____	_____ X 2	
B. Straw Structure NOT encircling block	0 or 15	
C. Brick Structure encircling block	15	
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) In score element B, the team should receive 0 points if a structure did not encircle the straw block prior to the "hurricane."

Team Name: _____

Passport Number: _____ Head Appraiser's Name: _____

HURRICANE

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

G.

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.