

Destination ImagiNation®
Instant Challenge

2005 Regional Competition – Entry and Advanced Levels

STACK 'EM UP

Challenge: Your **TASK** is to create up to 10 structures that will stack on top of each other to create a “free-standing” structure that is as high as possible. For the purpose of this Challenge, “free-standing” means that the structure is not attached to anything.

Time: You will have up to 5 minutes to use your **IMAGINATION** to design and build your structures and up to 2 minutes to stack your structures on top of one another.

Set-up: In the center of the room is a table with a taped square inside of which you are to stack your structures. There is also a table with materials that you may use to build your structures.

Procedure:

•**Part One** (5 minutes): Use the materials on the table to build up to 10 structures that can be stacked on top of one another. **Each of your structures must be made of more than one type of material.** Your team may also use this time to practice stacking up your structures. At the end of Part One, you should count the number of structures you have built for the Appraisers.

•**Part Two** (2 minutes): Stack up your structures one at a time. The first structure should be placed within the taped square, and then additional structures added to the first structure. When adding a new structure, the new structure must touch at least one of the previous structures. In addition, each structure must stay where it was placed, untouched, for 5 seconds before the next structure may be added. Structures may only touch the table within the taped area. If one of the structures falls off, it may be replaced. At the end of Part Two, the Appraisers will measure how high your free-standing stack is above the table. You will be warned when you have 1 minute remaining and 30 seconds remaining in Part Two.

Materials:

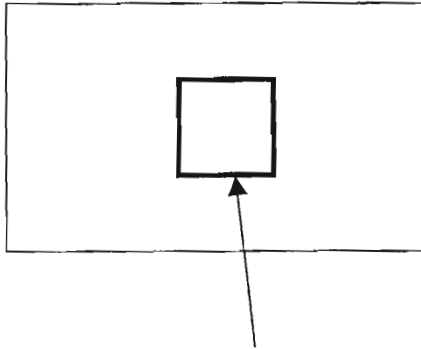
10 Toothpicks	2 Plastic Spoons	4 Mailing Labels	24 in (60 cm) of String
6 Paper Clips	1 Paper Cup	4 Cocktail Umbrellas	4 Paper Cupcake Wrappers
1 Piece of Foil	4 Straws	2 Band-Aids	10 Pieces of Spaghetti

Scoring: You will receive

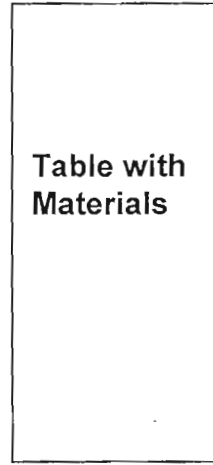
- 1 point (10 points maximum) for each structure that your team makes in Part One.
- 2 points (20 points maximum) for each structure that is successfully stacked up in Part Two.
- 1 point (30 points maximum) for each inch (2.5 cm) of height of your stack at the end of Part Two.
- Up to 20 points for 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 in the center of the room with a 12 in X 12 in (30 cm X 30 cm) taped square. There is also a 2nd table with materials.



12 in X 12 in
(30 cm X 30 cm)
Taped Square



Following the Tournament, all copies of this Challenge must be collected and destroyed.

Destination ImagiNation®
Instant Challenge
STACK 'EM UP
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. 	<ul style="list-style-type: none"> Almost all materials are used, several in unusual ways 	<ul style="list-style-type: none"> Most materials are used in unusual ways

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

Following the Tournament, all copies of this Challenge must be collected and destroyed.

TEAM COPY

Destination ImagiNation® **STACK 'EM UP**

Challenge: Your **TASK** is to create up to 10 structures that will stack on top of each other to create a “free-standing” structure that is as high as possible. For the purpose of this Challenge, “free-standing” means that the structure is not attached to anything.

Time: You will have up to 5 minutes to use your IMAGINATION to design and build your structures and up to 2 minutes to stack your structures on top of one another.

Set-up: In the center of the room is a table with a taped square inside of which you are to stack your structures. There is also a table with materials that you may use to build your structures.

Procedure:

Part One (5 minutes):

- Use the materials on the table to build up to 10 structures that can be stacked on top of one another.
- **Each of your structures must be made of more than one type of material.**
- Your team may also use this time to practice stacking up your structures.
- At the end of Part One, you should count the number of structures you have built for the Appraisers.

Part Two (2 minutes):

- Stack up your structures one at a time.
- The first structure should be placed within the taped square, and then additional structures added to the first structure.
- When adding a new structure, the new structure must touch at least one of the previous structures. In addition, each structure must stay where it was placed, untouched, for 5 seconds before the next structure may be added.
- Structures may only touch the table within the taped area.
- If one of the structures falls off, it may be replaced.
- At the end of Part Two, the Appraisers will measure how high your free-standing stack is above the table.
- You will be warned when you have 1 minute remaining and 30 seconds remaining in Part Two.

Scoring: You will receive

- A. 1 point (10 points maximum) for each structure that your team makes in Part One.
- B. 2 points (20 points maximum) for each structure that is successfully stacked up in Part Two.
- C. 1 point (30 points maximum) for each inch (2.5 cm) of height of your stack at the end of Part Two.
- D. Up to 20 points for how creatively you use the materials.
- E. Up to 20 points for how well your team works together.

STACK 'EM UP

Materials:

(Tape to Table)

- 10 Toothpicks
- 2 Plastic Spoons
- 4 Mailing Labels
- 24 in (60 cm) of String
- 6 Paper Clips
- 1 Paper Cup
- 4 Cocktail Umbrellas
- 4 Paper Cupcake Wrappers
- 1 Piece of Foil
- 4 Straws
- 2 Band-Aids
- 10 Pieces of Spaghetti

Destination ImagiNation®

Team Name: _____ Level: E M S U

Passport Number: _____ Team Challenge: _____

Appraiser's Name: _____

STACK 'EM UP

INSTANT CHALLENGE INDIVIDUAL SCORE SHEET

Score Element	Range	Team Score
A. _____ # of structures made by team in Part One	_____ X 1 (10 Points Maximum)	
B. _____ # of structures successfully stacked in Part Two	_____ X 2 (20 Points Maximum)	
C. _____ # of inches (2.5 cm) in height of stack at the end of Part Two	_____ X 1 (30 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.)

Destination ImagiNation®

Team Name: _____ Level: E M S U

Passport Number: _____ Team Challenge: _____

STACK 'EM UP

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

H.

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.