

# Destination ImagiNation®

## *Instant Challenge*

D2K1 - MYSTERY LOVES COMPANY - Elementary Level

# TUBE TOWER

**Challenge:** Create a tower built on tubes that is as high as possible and that has a team banner on top.

**Time:** You will have up to 6 minutes to use your **IMAGINATION** to create your tower.

**Set-up:** On the floor are 4 tubes attached to wooden blocks. These will be the support for your tower. In addition, there is a table with materials you can use to build your tower and make your banner.

**Procedure:** You must use the materials to build a tower that is as high as possible. The base of your tower will be one or more of the tubes that are attached to wooden blocks. The materials must be placed within or on top of the tubes. The materials may not be touching or attached to the outside of the tubes. In order to use a tube as a base for your tower, the wooden block attached to the tube must be touching the floor. The more tubes that you use as a base for your tower, the higher your score will be. You must also place a team banner on top of your tower.

### **Materials:**

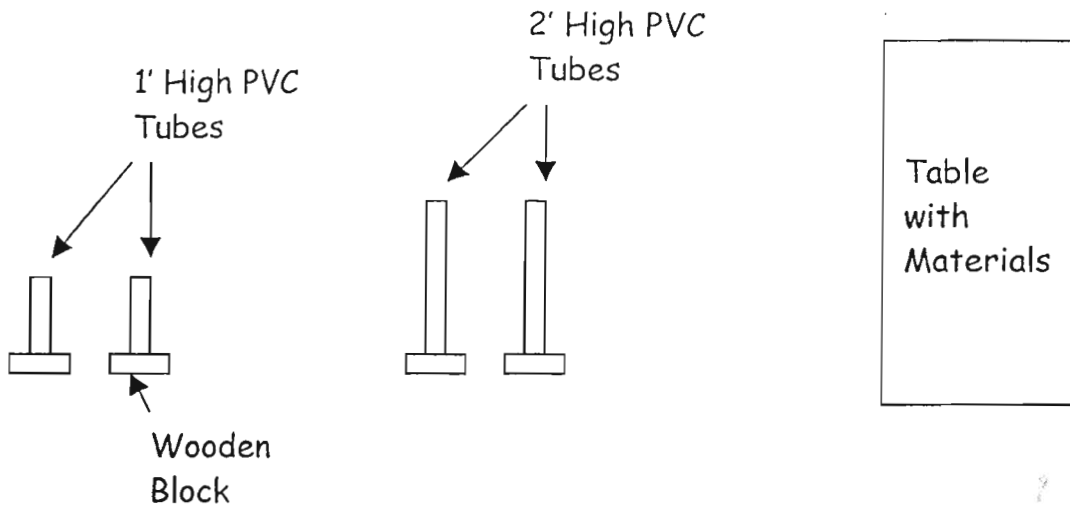
2 Sheets of newspaper	2 Coat hangers
4 Pencils	6 Mailing labels
2 Pieces of aluminum foil	1 Disposable glove
2 24" Pieces of string	1 3' Piece of rope (MAY NOT be damaged)
1 Paper plate	1 Marker (MAY NOT be damaged)
	1 Pair of scissors (MAY NOT be damaged)

**Scoring:** You will receive

- 2 points for each full inch of height your tower is above the floor times the number of tubes used as a base for the tower
- Up to 20 points for how creatively you use the materials.
- Up to 20 points for the creativity of your team banner.
- Up to 20 points for how well your team works together.

## For Appraisers only:

1. The set-up consists of 4 1" diameter PVC tubes attached to wooden blocks. Two of the tubes should be 1 foot tall, the other two 2 feet tall. In addition, there is a table with materials.



2. The PVC tubes can be attached to the wooden blocks by drilling a hole of the appropriate size, placing the PVC tube into the hole, and then putting screws into the sides of the wooden block to hold the tube in place.
3. The height of the 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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### TUBE TOWER

## 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"> <li>Some of the materials are used in common ways</li> </ul>	<ul style="list-style-type: none"> <li>Almost all materials are used but few in unusual ways</li> <li>Materials are rarely combined</li> </ul>	<ul style="list-style-type: none"> <li>Almost all materials are used, several in unusual ways</li> <li>Several materials are combined, but rarely more than once</li> </ul>	<ul style="list-style-type: none"> <li>Most materials are used in unusual ways</li> <li>Many materials are used in combination, several more than once</li> </ul>

### RUBRIC FOR APPRAISING CREATIVITY OF BANNER

Points	1 - 5	6 - 10	11 - 15	16 - 20
Qualities	<ul style="list-style-type: none"> <li>Creativity is present and it's somewhat enhanced</li> <li>The solution applies</li> </ul>	<ul style="list-style-type: none"> <li>Creativity is present and it's relevant</li> <li>The solution is complete</li> </ul>	<ul style="list-style-type: none"> <li>Creativity is present and it's integrated</li> <li>Chiefly original work</li> </ul>	<ul style="list-style-type: none"> <li>Creativity is there and it's innovative</li> <li>AHA! WOW!</li> </ul>

### RUBRIC FOR APPRAISING TEAMWORK

Points	1 - 5	6 - 10	11 - 15	16 - 20
Qualities	<ul style="list-style-type: none"> <li>Dominating individual who limits participation of others</li> <li>Cooperation is minimal</li> <li>Little sharing of ideas</li> </ul>	<ul style="list-style-type: none"> <li>Some evidence of individual team member roles</li> <li>Some cooperation</li> <li>Some evidence of accepting ideas of others</li> </ul>	<ul style="list-style-type: none"> <li>Acceptance of team roles above average</li> <li>Good cooperation</li> <li>Sharing and acceptance of ideas of others</li> </ul>	<ul style="list-style-type: none"> <li>Leadership and team roles are easily identified</li> <li>Diversity of skills mutually respected and evident</li> <li>Team dynamics are exemplary</li> </ul>

# Destination ImagiNation®

MYSTERY LOVES  
COMPANY  
ELEMENTARY LEVEL

Team Name: \_\_\_\_\_

Passport Number: \_\_\_\_\_ Appraiser's Name: \_\_\_\_\_

## TUBE TOWER

### INSTANT CHALLENGE INDIVIDUAL SCORE SHEET

Score Element	Range	Team Score
A. _____ inches in height of tower X 2 X _____ # of tubes used in base	_____ X 2 X _____	
B. Creativity of material use	1 - 20	
C. Creativity of banner	0 - 20	
D. Teamwork	1 - 20	
Total		

NOTE: Team Score elements should be recorded in whole numbers. (No fractions or decimals) In score element C, the team should receive 0 points if there is no team banner.

Team Name: \_\_\_\_\_

Passport Number: \_\_\_\_\_ Head Appraiser's Name: \_\_\_\_\_

## TUBE TOWER

### INSTANT CHALLENGE MASTER SCORE SHEET

Appraiser's Name	Total Score
1.	
2.	
3.	
4.	
Add 1 + 2 + 3 + 4	E.
Divide E by # of Appraisers	F.

NOTE: The division in the final step should be carried out to 3 decimal places.

INSTANT CHALLENGE SCORE
F.

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.