

**Destination ImagiNation®**  
**Instant Challenge**  
2004 Regional Competition - Entry and Advanced Levels

# MANY MINI LAUNCHERS

**Challenge:** Your **TASK** is to make as many different “launchers” as possible and use them to send popcorn over a taped line.

For the purpose of this Challenge, a “launcher” is something that may be used to launch a piece of popcorn through the air.

**Time:** You will have up to 7 minutes to use your IMAGINATION to make as many different launchers as possible **and** use the launchers to send popcorn over a taped line.

**Set-up:** In the center of the room are 2 tables. On one table are materials that you may use to make your launchers. On the 2<sup>nd</sup> table there is a taped square to use as a launch area. There is also a taped line that shows how far your popcorn must fly.

## Procedure:

Using the materials on the 1<sup>st</sup> table, you are to make up to 12 different launchers. Each launcher must be different in some way. Once a launcher has been built, one of your team members may take the launcher to the launch area and use it to try to send a piece of popcorn over the taped line. When using the launcher, you may use your hands to hold and load the launcher, but once the launcher is loaded, you may not touch the popcorn with your hands. You may continue to try to send popcorn over the line as many times as you want or you can take the launcher out of the launch area and rebuild it. Once a launcher has sent a piece of popcorn over the line, that launcher will be set aside and the materials in that launcher may not be used again. Any or all of the team members may build the launchers, but **every member of the team must at least try to launch a piece of popcorn before any member may go twice**. The popcorn must be launched, not thrown. Safety glasses should be worn by the team member using a launcher.

## Materials:

1 Piece of Duct Tape  
1 Cardboard Tube  
2 Pieces of Spaghetti  
3-7 Pairs of Safety Glasses

1 Plastic Knife  
1 Rubber Band  
1 Straw

1 Chenille Stick ( Pipe Cleaner)  
2 Coffee Stirrers  
1 Index Card

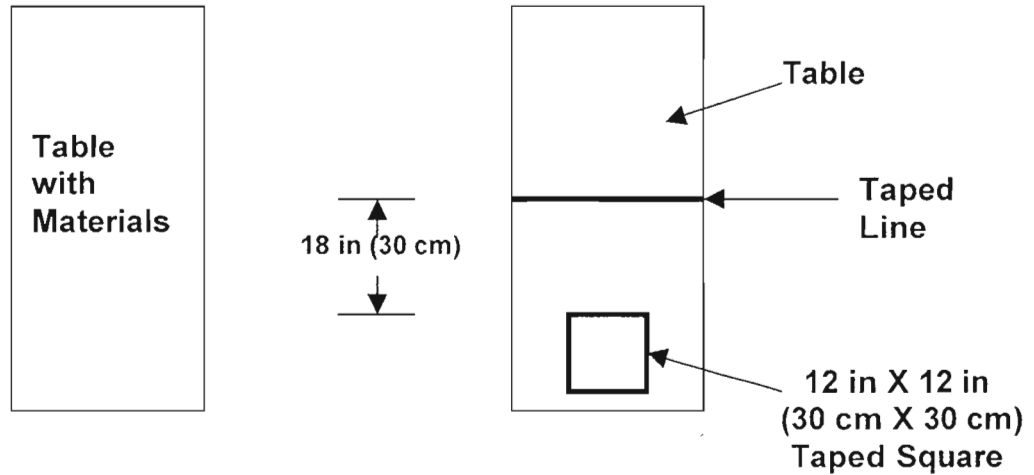
1 Clothespin  
2 Paper Clips  
Popcorn

**Scoring:** You will receive

- A. 5 points (60 points maximum) for each different launcher you make and use to send a piece of popcorn over the taped line.
- B. Up to 20 points for how creatively you use the materials.
- C. Up to 20 points for how well your team works together.

## For Appraisers Only:

1. The set-up consists of 2 tables, one with materials that may be used to make launchers and the other with a taped 12 in X 12 in (30 cm X 30 cm) taped square on one end and a taped line 18 in (30 cm) from the taped square.



2. Appraisers do NOT need to judge whether the pieces of popcorn are catapulted versus flipped with the wrist, as long as a device is used. However, the materials may NOT be used to throw the popcorn.

TEAM COPY

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**Procedure:**

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- Each launcher must be different in some way.
- Once a launcher has been built, one of your team members may take the launcher to the launch area and use it to try to send a piece of popcorn over the taped line.
- When using the launcher, you may use your hands to hold and load the launcher, but once the launcher is loaded, you may not touch the popcorn with your hands.
- You may continue to try to send popcorn over the line as many times as you want or you can take the launcher out of the launch area and rebuild it.
- Once a launcher has sent a piece of popcorn over the line, that launcher will be set aside and the materials in that launcher may not be used again.
- Any or all of the team members may build the launchers, but **every member of the team must at least try to launch a piece of popcorn before any member may go twice.**
- The popcorn must be launched, not thrown.
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*Instant Challenge*  
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**APPRAISER RUBRICS**

**RUBRIC FOR APPRAISING CREATIVITY OF MATERIAL USE**

Points	1 – 5	6 – 10	11 – 15	16 – 20
<b>Qualities</b>	<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> </ul>	<ul style="list-style-type: none"> <li>Almost all materials are used, several in unusual ways</li> </ul>	<ul style="list-style-type: none"> <li>Most materials are used in unusual ways</li> </ul>

**RUBRIC FOR APPRAISING TEAMWORK**

Points	1 – 5	6 – 10	11 – 15	16 – 20
<b>Qualities</b>	<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>

## MANY MINI LAUNCHERS

### **Materials:**

(Tape to Table)

- 1 Piece of Duct Tape
- 1 Plastic Knife
- 1 Chenille Stick (Pipe Cleaner)
- 1 Clothespin
- 1 Cardboard Tube
- 1 Rubber Band
- 2 Coffee Stirrers
- 2 Paper Clips
- 2 Pieces of Spaghetti
- 1 Straw
- 1 Index Card
- Popcorn
- 3 – 7 Pairs of Safety Glasses

## Destination ImagiNation®

Team Name: \_\_\_\_\_ Level: E M S U

Passport Number: \_\_\_\_\_ Team Challenge: \_\_\_\_\_

Appraiser's Name: \_\_\_\_\_

### MANY MINI LAUNCHERS

### ***INSTANT CHALLENGE INDIVIDUAL SCORE SHEET***

Score Element	Range	Team Score
A. _____ # of different launchers that have a successful launch	_____ X 5 (60 Points Maximum)	
B. Creativity of material use	1 – 20	
C. 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: \_\_\_\_\_

Appraiser's Name: \_\_\_\_\_

## MANY MINI LAUNCHERS

### ***INSTANT CHALLENGE MASTER SCORE SHEET***

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

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

<b><i>INSTANT CHALLENGE SCORE</i></b>
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 or more.