

# Constraints of Building a 12 Straw Tower

1. You are designing and building a tower with the goal of being the tallest possible.
2. Your supplies are 12 inches of tape and 12 straws.
3. You may also use scissors.
4. Supplies are not replenished.
5. You may **NOT** use tape to secure the tower to the table or floor. The tower must be free-standing.

# 12 Straws Tower

Name \_\_\_\_\_

**ASK:** The question for this challenge is:

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**PLAN** – Jot ideas and on the back of the paper sketch your tower. Be sure to label your work.

**CREATE/ PROBLEMS AND SOLUTIONS**– As you are working you may need to be very creative in finding the best way to use the limited supplies. Describe what you did!

SOLUTION: \_\_\_\_\_

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SOLUTION: \_\_\_\_\_

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## FINAL DRAWING

Draw and label your final tower.

## FINAL HEIGHT:

**REFLECTION:** What did you learn? Discuss your success or lack of success and reasons.

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# Straw Towers

Name \_\_\_\_\_

## IMPROVING

Describe some things that were problems and how you solved them. What things worked? What was frustrating?

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## FINAL DRAWING

Draw and label your final tower.

## TEAMWORK

Describe the jobs within your group and what part you had. How did your team collaborate?

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## REFLECTION

What did you learn? Discuss your success or lack of success and reasons for it.

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**FINAL HEIGHT:**

# 12 Straws - Tower Scoring

1= Unsatisfactory 2= Needs to Improve 3= Good Effort 4= Outstanding Effort

Personal Description	Circle a number
I presented my idea for the tower and shared it with my team. I listened to all the ideas from my team.	1 2 3 4
I helped build the tower. My job was _____.	1 2 3 4
As we ran into problems with the tower, I helped with ideas to improve it.	1 2 3 4
I finished my lab sheet. My answers were thorough and detailed.	1 2 3 4
<b>TOTAL</b>	

Team Description	Circle a number
Our team planned together. We listened to ideas from everyone and then talked about ways to combine the ideas.	1 2 3 4
During the building time we all had jobs. We worked diligently to complete the task.	1 2 3 4
We worked to improve the tower when we had problems. We followed all the task rules.	1 2 3 4
Our 12 Straw Tower was very successful. We followed the rules of the task. We had a very good team.	1 2 3 4
<b>TOTAL</b>	

COMMENTS:

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