



# STEM CHALLENGE

Science | Technology | Engineering | Math

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Today's Challenge: **Ping-Pong Roller Coaster**

*You must design and build a roller-coaster  
(for a ping-pong ball).*

*Your model must successfully transport a ping-pong ball  
from one location to another... but not necessarily in the  
shortest or quickest way possible. It may have various  
turns and drops, but it must keep moving and arrive  
“safely” (i.e. without the ball falling off of the tracks).*

*For this challenge, you can only use the following materials:*

- cardboard box or cardboard sheet (for the base of your coaster)
- variety of “classroom construction” items  
(toothpicks, popsicle sticks, construction paper, etc.)
- paper towel rolls / toilet paper rolls
- straws
- scissors
- white glue / glue sticks
- ping-pong ball
- bowl to catch the ball at  
the bottom (optional)





**OUTCOME:**

What were the results of this challenge?

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**EVALUATE:**

On a scale of 1 to 10, how well did you accomplish this challenge? Why would you give yourself this grade?

Your Grade

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What would you do differently next time?

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**REFLECT:**

How might the skills to complete this challenge carry over into real-world applications?

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