

# Twist-O-Matic Challenges

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

## CHALLENGE #1



The Twist-O-Matic needs to spin exactly **5 times** on its own. So...

- How many times do you need to turn the Twist-O-Matic with the **THIN** rubber band? \_\_\_\_\_
- How many times do you need to turn the Twist-O-Matic with the **THICK** rubber band? \_\_\_\_\_

Would you use **THIN** or **THICK** rubber bands to make the most exciting ride? Why?

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## CHALLENGE #2



Sadly, you can't use **THICK** rubber bands. Do some experiments and describe what you did to make a fun, fast Twist-O-Matic ride using the **THIN** rubber band. (It's okay if the ride spins around more than 5 times.)

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Why do you think your experiment was successful in terms of **energy**? \_\_\_\_\_

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## CHALLENGE #3

How will you make your real ride go—where will the stored energy come from? Draw your ideas in the box. (If you need more room, use the back of the page.)