Twist-O-Matic Challenges

Name:_____

mystery science
How is your body similar to a car?

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?

_____

_____

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.)

_____

_____

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

_____

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.)