Name:	. Period:	Date:

Let's Build a Roller Coaster!

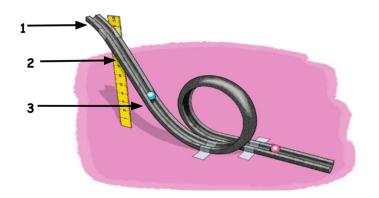
Materials:

1 six-foot section of pipe insulation (cut in half)

1 marble

1 metal ball

Masking tape



Instructions:

- 1. Carefully tape one end of the pipe insulation to the table. Make sure the tape follows the shape of the pipe insulation exactly or the marble/metal ball will not travel smoothing on the roller coaster.
- 2. Create a loop and place a piece of tape at the beginning of the loop and secure it to the floor and then place a piece of tape at the end of the loop and secure it to the floor.
- 3. Get THREE pieces of masking tape and label them 1, 2 and 3.
- 4. Place each piece of tape:
 - a. #1: TOP of roller coaster
 - b. #2: BETWEEN #1 & #3
 - c. #3: closest to the start of the loop
- 5. Start your marble at each starting position (#1, #2, #3) and record your observations, THEN...
- 6. Start your metal ball at each starting position (#1, #2, #3) and record your observations

Name:		Period:	Date:	
Observations:	(What did you notice? What	happened?)		
START Location	Marble		Metal ball	
#1 (top)				
#2 (middle)				
#3 (bottom)				
Questions:				
	u test two different roller co	oaster "cars" (mar	ble and metal ball)?	
2. Why did yo	u start the marble or metal b	oall at different h	eights?	
3. If you had and why?	another day and could modify	the roller coaste	er, what would you do	