

Name \_\_\_\_\_

Date \_\_\_\_\_

### Lesson 5: Looking at Rubber Band Energy

1. What did you feel in your hand as you wound the rubber band? Did this feeling change as you wound the rubber band tighter? If so, how?
2. Did the direction in which you wound the rubber band affect the direction in which your vehicle moved? If so, how?
3. What kind of energy is making your vehicle move?
4. After the rubber band has completely unwound from your vehicle's axle, what kind of energy does your vehicle have?

### Lesson 6: Testing Friction

	Tires Distance (cm)	No Tires Distance (cm)
Trial 1		
Trial 2		
Trial 3		
Trial 4		
Trial 5		
Average (cm)		

1. Did your car travel farther with tires or without tires on the front wheels? Why do you think this happened?
2. What was the variable in this experiment?
3. Why was it important for you to conduct multiple trials?
4. What are some other ways you could reduce the effects of friction on your car's motion?
5. Is friction always a bad thing? Describe some examples of when friction might be useful.