

**Q****U****I****Z****S T U D E N T  
H A N D O U T** 

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

## Hall's Carriage Quiz

Try to use vocabulary words (on the back of this quiz) as you answer questions, where appropriate.

- 1 Name Newton's three laws.
- 2 Which of the three laws does pulling the carriage with the rubber band demonstrate?
- 3 To increase the need for more effort or acceleration in the hot tub situation, you would need to make the ramp \_\_\_\_\_ (shorter/longer).
- 4 Decreasing the ramp's distance would increase the \_\_\_\_\_.
- 5 If carriage (hot tub) had no wheels under it, moving it would create \_\_\_\_\_, which would slow down the work, or create need for more effort or acceleration.
- 6 The rubber band in the experiment exerted \_\_\_\_\_ on the carriage.
- 7 Increasing the rubber band or decreasing the \_\_\_\_\_ of the carriage would make the work easier.
- 8 Use the information in this unit to answer the following question: How can I get up the hill more easily on my bicycle?



# S T U D E N T H A N D O U T

## Vocabulary List

1 Force

6 Effort

2 Mass

7 Work

3 Acceleration

8 Friction

4 Distance

9 Incline

5 Angle

