

## Roller Coaster Physics - (Part 2)

### Individual assignment: Do not show

### Every year students

submit their Physics lab

report on roller coaster

Knowledge of  
Energy in roller  
coaster

#### Lab objectives are:

- Use theory to design roller coaster
- Show that conservation of Energy is valid
- Measure the loss of mechanical energy



Question: How does energy change as a roller coaster moves?

1. **Energy:** Use a data graph and explain as a function of energy of roller coaster, and illustrate the graph with the roller coaster track.

How do mechanical energy and change as it goes down the hill? \_\_\_\_\_

2. **Experiment:** Use **graphical representation** of data to describe the energy of roller coaster. Make three graphs: a) vs height, and two plots.

a. What happens mechanical energy as it goes down the hill? \_\_\_\_\_

b. What happens potential energy as it goes up the hill? \_\_\_\_\_

3. **Experiment:** Use **mathematical** of data to describe energy of roller coaster. Make three graphs: a) vs height, and two plots.

a. What happens mechanical energy as it goes down the hill? \_\_\_\_\_

b. What happens potential energy as it goes up the hill? \_\_\_\_\_

# The Roller Coaster Physics Answer Sheet

**Randall Dewey Knight, Brian  
Jones, Stuart Field**



## **The Roller Coaster Physics Answer Sheet:**

STEM Years 4-5: Book 1 Leonie Westenberg, 2017 This book is ideal for teachers looking to optimise STEM in the classroom In recent times there has been a strong call to increase the focus on STEM activities in Australian schools By offering STEM in primary schools it is hoped that students will operate more effectively in the science and technology based society in which they live This book is one of a two set series which uses roller coasters as a means to connect students with Science Technology Engineering and Maths

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The Handbook of Discourse Analysis Deborah Tannen, Heidi E. Hamilton, Deborah Schiffrin, 2015-03-30 The second edition of the highly successful Handbook of Discourse Analysis has been expanded and thoroughly updated to reflect the very latest research to have developed since the original publication including new theoretical paradigms and discourse analytic models in an authoritative two volume set Twenty new chapters highlight emerging trends and the latest areas of research Contributions reflect the range depth and richness of current research in the field Chapters are written by internationally recognized

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