

Dreamworld: Physics in Real Life

Thesis

Physics, when taught in school, is mostly theoretical, but when combined with excursions such as the Dreamworld trip, the real life applications of it become clear, making the trip highly valuable.

Introduction

The class excursion to Dreamworld has allowed for the consolidation of theoretical notions in a practical environment. Concepts such as conservation of energy, acceleration due to gravity and simple harmonic motion were able to be observed and experienced. Further calculations and reasoning highlighted discrepancies between the practical and theoretical results found. At Dreamworld, an accelerometer was worn on rides to measure the acceleration experienced on board, so that the data could be compared to predictions. Additionally, a clinometer was used to measure angles to determine heights of rides at certain points. These results were found from riding and observing Dreamworld's Giant Drop, Claw and Buzzsaw.

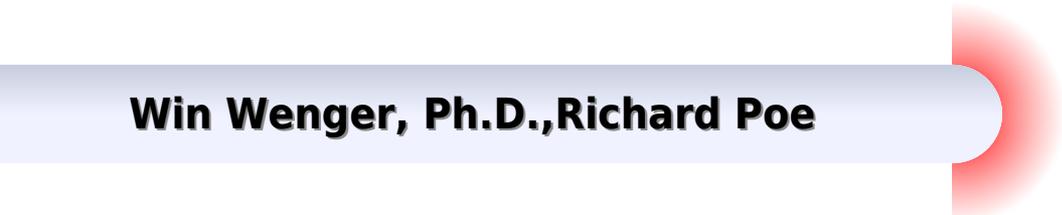
The Giant Drop



The Giant Drop mainly presented the concept of acceleration due to gravity. Standing at 120m tall according to Dreamworld and calculations (see below: Height of Gondola at Drop Point), the Giant Drop has been hailed as the, "tallest free-falling ride in the world" (Guinness Book of World Records, 1999). Acceleration due to gravity is, "the acceleration of a body due to the influence of the pull of gravity alone," (Universe Today, 2016). As such, it is expected that for the duration of the ride's free-fall it would accelerate at 9.8m/s/s which is the known acceleration due to gravity on Earth (Universe Today, 2016). During this estimated 2.77 seconds, weightlessness was experienced by riders. Data obtained through use of a clinometer at Dreamworld was first used to calculate the height of the gondola at the ride's drop point then to determine the velocity of the ride throughout.

Dreamworld Physics Education Program Answers

Win Wenger, Ph.D., Richard Poe



Dreamworld Physics Education Program Answers:

The Einstein Factor Win Wenger, Ph.D., Richard Poe, 2017-04-26 The Einstein Factor liberates mental abilities you didn't know you had. I tried the techniques in the book and they paid off instantly. It's almost scary. Duncan Maxwell Anderson, senior editor, Success. New research suggests that the superior achievements of famous thinkers may have been more the result of mental conditioning than genetic superiority. Now you can learn to condition your mind in the same way and improve your performance in virtually all aspects of mental ability including memory quickness, IQ, and learning capacity. Intelligence pioneer Dr. Win Wenger has identified the tools you need to reach greater levels of sharpness, insight, and overall intelligence. Using Wenger's Image Streaming technique, you learn to bypass inhibitions and access the hypernormal capabilities hidden in your own subconscious. Discover how you can improve your memory, read faster, and learn more quickly. Solve problems like a genius. Score higher on tests. Build self-esteem. Induce a state of total creative absorption. Access powerful subconscious insights through visualization. Increase your intelligence. The Einstein Factor is your key to living an extraordinarily effective and creative life.

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