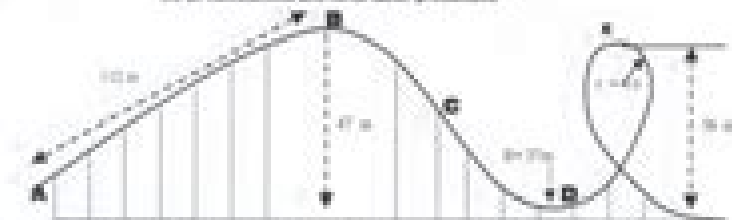


Examples: Great American Scream Machine and Nitro

ACTIVITY 3 & 4: THE GREAT AMERICAN SCREAM MACHINE CONSOLIDATED DATA PAGE

Before Riding: Measure required times
(Do all calculations and force factor predictions)



Measurements on the diagram are accurate. Vertical measurements are taken relative to the station where E is.

IMPORTANT: Your force meter parallel to track on the way up the first incline (A to B). Change just before the loop.
Your meter parallel to your track after B. You will change meter and read for approximately

Measuring from the Ground

Time for first up to
point B (vertical)
 $t_{up1} = 3.25 \text{ s}$

Time for entire track, first up to
point E
 $t_{up2} = 1.5 \text{ s}$

Length of track = 10 m

Force Factor Predictions and Verification Measurements			
Calculate & verify riding on the track. Approximately what to expect			
Where	Calculated F	F measured on ride	Direction
Force on back going upward (A to B) Water parallel up		~ 1	Forward
Force on seat at D, bottom of curve Water parallel to back		~ 1.5	Reverse
at E, top of loop while upside down Water parallel to back		~ 2	Forward

Things To Notice While Watching and Questions To Have Riders Answer

- Watch a rider with long hair. When the rider is upside down, is the hair hanging down, or it would it be held up?

It would be the same upside down & stationary.

- Did the rider feel upside down in the first loop?

- Consider how the pressure from the seat and harness varied during the ride.

- How does pressure on a rider's shoulders at any time during the ride? If so where?

- Where do the pressure from the seat seem greatest?

- Where do the pressure from the seat seem least?

- Where do the pressure from the seat seem most?

- Where do the pressure from the seat seem least?

- Where do the pressure from the seat seem most?

- Where do the pressure from the seat seem least?

- Where do the pressure from the seat seem most?

CALCULATIONS

(Show all substitutions)

Prove Your Total Energy

$$E_p = mgh$$

- Your potential energy at B, the top of the first hill is the ideal total energy you will have throughout the ride. If we ignore friction, the total energy is the sum of your potential energy and kinetic energy at any given moment. Let potential energy be 0 on the ground and calculate your potential energy at B. This is now your total energy for the ride.

$$(85.9)(9.8)(12)$$

$$\text{Total Energy } E_p = 10155.96 \text{ J}$$

With correct units, speed and energy at the top of the first loop

$$E_p = mgh$$

- During the ride you must account for your total energy. At B your total energy is purely potential and purely kinetic. Calculate your potential energy at B, the top of the loop.

$$(85.9)(9.8)(4)$$

$$E_p = 3355.16 \text{ J}$$

- Calculate your IDEAL KINETIC ENERGY at the top of the loop. We are assuming that the total energy is all the same. What factors affect the validity of this assumption? Explain.

$$59,945.54 - 3355.16$$

$$E_k = 56590.38 \text{ J}$$

$$E_t = E_p + E_k$$

- Calculate your IDEAL speed at B, the top of the loop.

$$\sqrt{2E_k/m} = \sqrt{2(56590.38)/85.9}$$

$$\text{Ideal } v_{top} = 36.0 \text{ m/s}$$

$$v_{top} = 36 \text{ m/s}$$

- Calculate your EXPERIMENTAL speed by using the time it took the entire train of cars to pass point B at the top of the loop.

$$10/1.5$$

$$\text{Experimental } v_{top} = 6.67 \text{ m/s}$$

$$v_{top} = 6.67 \text{ m/s}$$

- Calculate the value of the kinetic energy using the experimental velocity at point B.

$$\frac{1}{2}(85.9)(12^2)$$

$$\text{Experimental } E_k = 625.5 \text{ J}$$

$$E_k = 625.5 \text{ J}$$

- Calculate the experimental value of the total energy at the point. Total, you still have the same potential energy as you did at B.

$$\text{Experimental } E_t = 10155.96 \text{ J}$$

$$E_t = E_p + E_k$$

- Find the difference between your experimental value of total energy and the ideal value you calculated in #1.

$$\text{Difference} = 1289.5 \text{ J}$$

$$v_{top} = \text{Experimental } 6.67 \text{ m/s}$$

- Find the percent deviation between your experimental value found in #7 and the ideal value found in #1.

$$\text{Percent} = 9\%$$

- How would you account for the energy difference you found?

$$E_t = 10155.96 \text{ J}, E_k = 625.5 \text{ J}, 105.5 \text{ J}$$

The Great American Scream Machine Physics Packet Answers

S Ben Porath



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