

Physics Fun Day 2005 Activity Answers (High School Version)

Remember that safety is the first and last concern of you and your students. Check all accelerometer rubber bands before coming to the park. Require students to have one hand on the ride at all times. Many of the values you will find on this page were done experimentally but most were based on values provided by Knott's Berry Farm, so allow for some variations. If you would like to participate in the planning and selection of ride questions and solutions, sign up in the Boardwalk Ballroom. Please keep this page "teacher confidential."

BOOMERANG

1. $h = 38 \text{ m}$
2. $v_{\text{avg}} = 11 \text{ m/s}$
3. $v = 22 \text{ m/s}$
4. about 2.0 g's

BUMPER CARS

1. 3rd Law
2. Pole touching ceiling
3. Increase collision time
4. Answers vary

DRAGON SWING

1. About 2 g's or 20 m/s
2. $L = 16 \text{ m}$
3. $v = 18 \text{ m/s}$
4. $a = 18 \text{ m/s}^2$



XCELERATOR

1. $h = 33 \text{ m}$
2. $g = 1.6 \text{ g's}$
3. $t = 2.3 \text{ s}$; $d = 48 \text{ m}$; $v = 36 \text{ m/s}$
4. $g = 0 \text{ g's}$

GHOST RIDER

1. $h = 36 \text{ m}$
2. $v = 23 \text{ m/s}$
3. $a = 0.7 \text{ g's}$



RIP TIDE

1. Height = 11.5 m
2. Gauge Pressure = $1.1 \times 10^5 \text{ Pa}$
3. Volume Flow Rate = $2 \times 10^{-2} \text{ m}^3/\text{s}$
4. $\text{HP}_{\text{avg}} = 8.5 \text{ hp}$

JAGUAR

1. $v_1 = 12 \text{ m/s}$; $v_2 = 12 \text{ m/s}$
2. $r = 8.5 \text{ m}$
3. $t = 4.4 \text{ s}$; $v = 12 \text{ m/s}$
4. $a = 17 \text{ m/s}^2$ or 1.8 g's



LOG RIDE

1. Guests = 1.63×10^4
2. $v = 2.5 \text{ m/s}$
3. $h = 11.6 \text{ m}$; angle = 35°
4. $v = 15 \text{ m/s}$
5. 3400 kg-m/s

LOG RIDE

MONTEZOOMA

1. $t = 1 \text{ sec}$; $a = 2.5 \text{ m/s}^2$
2. $a = 2.5 \text{ g's}$
3. $a = 3 \text{ g's}$
4. $e = 80\%$

PERILOUS PLUNGE

1. angle = 75°
2. $h = 35 \text{ m}$
3. $a = 9.5 \text{ m/s}^2$
4. $a = 8.5 \text{ m/s}^2$
5. answers vary



SUPREME SCREAM

1. $h = 76 \text{ m}$
2. $t = 3 \text{ sec}$; $d = 45 \text{ m}$
3. answers vary
4. $a = -0.8 \text{ g}$
5. $a = 4 \text{ g's}$



SILVER BULLET

1. Length = 12.1 m
2. Power, min = 200 hp
3. Speed Increase = 25 m/s
4. Angular Velocity = 1.9 rad/s
5. Radius = 8 m
 $a_c = 29 \text{ m/s}^2$

LA REVOLUCION

1. 240 degrees
2. 11.5 m
3. Period of 7.4 seconds
4. from 22 m/s^2 to 33 m/s^2
5. from 22 m/s^2 to 33 m/s^2

Knotts Physics Fun Day Answers

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Knotts Physics Fun Day Answers:

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