

Flying Pig Lab Answers

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Flying Pig Lab Answers

Flying Pig and Centripetal Motion. Introduction: In this lab you will investigate the concepts and equations of centripetal acceleration and centripetal force. Your experimental apparatus will consist of a flying pig, a meter stick, and a "pig slinger" which will allow you to determine the radius of the pig's orbit.

Flying Pig and Centripetal Motion - Las Positas College

Flying Pig Lab Answers In this lab you will investigate the concepts and equations of centripetal acceleration and

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centripetal force. Your experimental apparatus will consist of a flying pig, a meter stick, and a “pig sligher” which will allow you to determine the radius of the pig’s orbit.

Flying Pig Lab Answers - web.develop.notactivelylooking.com

Flying Pig Lab Questions Student Name: _____ Date: _____

Show all your work in completing each of the following questions. Circle your final answer. 1. Attach the pig to the ceiling. Set the pig in circular motion. Ask the supply teacher to allow you to find a stopwatch in the deep drawer labelled Period 3 in the lab bench at the front of the room.

12U Flying Pig Lab Questions (1).docx - Flying Pig Lab ...

Flying Pigs Lab and Problems Circular Motion at Constant Speed:
Data: 1. Once the pig is flying in a circle with a constant radius, measure the radius of the circle as accurately as you can: (r is

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NOT length of string!) $r = \underline{\quad 0.4 \quad}$ m 2. Find the time it takes the pig to make 5 complete revolutions:

Flying Pigs Lab and Problems - District 196

Physics Lab 8: The Flying Pig – Centripetal Force Section: Name: so that the pig “flies” in a circle. The goal is to launch the pig tangent to the circle of flight. It’s better to launch it too easy than too hard.

Physics Lab 8: The Flying Pig – Centripetal Force Section

...

If the pig does not fly in a circle for 10 seconds, carefully catch it and try the launch again. PRE-LAB INSTRUCTIONS: Students will calculate the theoretical speed of the pig, to be compared to the pig’s actual speed, measured in the activity. (Solutions are in parentheses.) 1. Draw a diagram of the flying pig, showing the forces that act on it.

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Flying Pig - Physics Learning Laboratories

Rotation and the Flying Pig Name: _____ Class: _____ Arbor Scientific www.arborsci.com Pre-Lab Questions: 1. Draw a diagram of the flying pig, showing the forces that act on it. Ignore air resistance. (Forces will include the pig's weight, mg , and the tension in the string, T , as shown.) 2.

Rotation and the Flying Pig Teacher's Notes

Model Calculations Step 9: Find Theoretical Velocity Conclusion Step 10: Find Time for Revolutions (At 10 Revolutions) (At 1 Revolution) Step 11: Find Experimental Velocity Step 12: Find Percent Difference Errors Could not be 100% sure if the radius was measured accurately

The Flying Pig by Shwetha Kochi - Prezi

Flying Pig Objective: * To find the flying pigs'

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(period,frequency,Rotational Velocity,Linear Velocity, Centripetal acceleration, Centripetal force) with our own equipment available to us. Procedure: · To find the frequency of the flying pig, we used the stopwatch on one of our phones to see how many circles the pig makes in a second.

Flying Pig - Physics Slug

A model plane is hung by a string from a mounted point on the ceiling. The plane has a motor that keeps it steadily going at a constant speed. It is given that the plane weighs 144g, it has a radius of 86cm, and makes 10 revolutions in 13.1 seconds. I need help to understand how to work out and find "1. Angular velocity, 2. centripetal force, 3. force of tension on the string, and 4. the angle ...

Circular motion: flying plane-pig lab? | Yahoo Answers

The flying pig lab allows students to investigate the physics and

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mathematics of uniform circular motion. A motorized, plastic pig is suspended from a thin string and “flies” in a circular path...

Activity: Flying pig - AP Physics 1 Online

Calculaton of theoretical and measured period for a pig flying in a conical pendulum. ... Ch 7 - Flying Pig Lab Lecture.mp4 - Duration: 11:18. Mike Spalding 8,332 views. 11:18.

[DH-32] Flying Pig Calculations

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When pigs fly! A fun lab on centripetal force. Have fun while reinforcing concepts of circular motion, including speed and centripetal acceleration, with this dynamic, self-propelled Flying Pig. The circular motion gives students a conical pendulum and a

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perfect opportunity for quantitative measurements of circular motion.

Flying Pig with Flapping Wings - Arbor Scientific

The Flying Pig Authored by Paul Robinson, laserpablo.com Topic: Centripetal Force Purpose To show that the net force for a conical pendulum is mv^2/r . Equipment and Supplies Flying Pig and pivot (or equivalent) stopwatch meterstick vertical and horizontal rod and table clamp (not required if pivot is attached to the ceiling) Discussion

The Flying Pig - LaserPablo.com

Blog. Sept. 11, 2020. Create a clean and professional home studio setup; Sept. 10, 2020. 3 interactive class activities to energize your online classroom

Post Lab Analysis by Varun Patel - Prezi

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the pig as a function of r , L , and g . (5) Set up the flying pig apparatus and have each of your lab partners measure the radius of the circular path r , the length of the string L , and the period of motion T . (6) Calculate the experimental value for the

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speed $v_{\text{exp}} = (2\pi r)/T$ and compare with the

LAB 7 When Pigs Fly

Question: LAB 10: CENTRIPETAL FORCE-FLYING PIGS AP PHYSICS
1 INTRODUCTION-An Object Suspended From A String That Is Rotating At A Constant Speed In A Horizontal Circle Is Known As
12/20 A Conical Pendulum. Examples Of Conical Pendulums Include Tether Balls, Amusement Park Swing Rides, And Toys Like The Flying Pig. Day OBJECTIVE-The Purpose Of This Lab Is To Investigate...

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