

## Flying Pig For Physics Lab

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**The flying pig lab led us to the conclusion that centripetal forces forces that redirect an object so that it will turn continuously and end up in circular motion are really other forces such as normal force gravity tension in a cord or friction**

Pig Physics 6 Last modified by MichaelBartmess on 2016 01 07 05 26 our basic understanding of the physics of this thought experiment tell us that if the pig s flight is not moving up or down the rope has tension caused by the flying pig s every changing velocity which is also known as Centripetal Acceleration. I use it for a lab in my regular and AP physics classes Read more One person found this helpful Helpful Comment Report abuse Danielle S 5 0 out of 5 stars THIS IS GREAT April 14 2015 Love the flying pig I had one for years and it finally died so had to get another one Great entertainment for the grand kids and dogs. AP Physics B Course Overview Formal Lab Reports ? 30 2 Homework Sets ? 20 3 Tests and Quizzes ? 50 The Flying Pig?students determine the relationship between

velocity and mass velocity and force and velocity and radius of an object moving in uniform circular motion ? 5. Science amp Mathematics Physics Next Circular motion flying plane pig lab 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.

**Motions as part of the analysis of their lab 2 1 The student can justify the selection of a mathematical routine to solve problems Students select appropriate equations to describe the ball?s motion in either constant velocity constant acceleration AP Physics 1**

**Investigation 1**  
Flying Pig Physics When Pigs Fly they teach A very fun way to learn about circular motion and centripetal force When hung from the ceiling the wings flap and the pig moves in a circular motion. The Flying Pig Demonstration

for physical science and physics is tethered to the ceiling with a string and propelled in a circle by flapping wings Add some laughs and inspire lively discussions.

**Lab Report Rubric All lab reports must be written in ink and follow these guidelines Reports written in pencil or missing any part of the lab will be handed back for**

Methods This is an open ended lab You need to decide what to measure and what to do to calculate the speed of the pig without a stopwatch Before you begin YOU MUST write out your methods and create a data table to complete at least 5 trials. Purpose To show that the net force for a conical pendulum is To measure the speed of the flying pig The Physics Universe Where Pigs Can Fly Pre Lab Analysis.

**Flying Pig Included A second activity uses a flying plastic pig so students can investigate the circular**

**motion at an angle below the horizontal The lab includes instructions and materials for up to six students per lab group**

Due Galileo's Ramp Lab Formal Lab Report HW 3 A Component Method Worksheet 1 10 2 10 6 Notes Chapter 3 Projectile Motion Due Component Method HW HW 3 A HW 3 B. View Lab Report Flying Pig Lab pdf from PHYSICS 1 N A at Debakey H S For Health Prof Shilin You AP Physics B3 Ms Managuit 11 28 16 Flying Pig Lab Purpose Use the circular motion and centripetal. 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 Post Lab Analysis 1.

**Lab 9 AP When Pigs Fly Lauren DiNovi and Courtney Grochowski Purpose The purpose of this lab is to find different relationships for objects moving in a circle**

**when string is on an angle The relationships that** InThinking Physics is a valuable resource If you are teaching IB Physics for the first time then it is an absolute must have The materials provided are practical easy to follow and full of interesting resources. Post Lab Analysis must have The materials provided are practical easy to follow and full of interesting resources. Post Lab Analysis purpose of this lab was to execute and determine the relationship between the time the pig was in the air the velocity and the radius.

**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 speed v** This feature is not available right now Please try again later. It arrived This is flying pig very much in vogue among physics teachers because it acts as a conical pendulum The flapping wings seem to give it enough forward thrust to eliminate any deceleration from friction

so it flies level. In the overhead view of the Flying Pig's clockwise motion to the right draw an arrow representing the direction the Flying Pig will go if the string is cut at this instant Gravitational Determine the Gravitational Force between the pig and the earth.

**61 The Flying Pig The Flying Pig Purpose To show the net force for a conical pendulum is  $mv^2/r$  Equipment and Supplies Flying Pig or equivalent available from Arbor Scientific vertical and horizontal rod table clamp stopwatch Post Lab Analysis 1**

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 slihter" which will allow you to determine the radius of the pig's orbit. The labs were written by physics teachers and higher education faculty members as well as experts in the field of inquiry based instructional design quantitative skill application and lab

investigations. When pigs fly A fun lab on centripetal pig flying in a circle Note this experiment can also be force Add some excitement to your lessons on circular motion with the Flying Pig Suspended from the ceiling his wings flap and carry him in a regular circle. Common Experiments in AP Physics 1 most you did some were demonstrated See if you can use steps a e above to design experiments for each of the labs below On the following pages a design is outlined for each lab that follows steps a e.

**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 when the pig is flying in a consistent circle measure the radius of the circle  $r$  Conceptual Physics Lab Manual RELATED PRODUCTS Rotating Stool P3 3610 A sturdy lab stool with**

Introduction In this practical the acceleration due to gravity will be found by measuring the time period of a

done with flying cows dinosaurs and even planes.

**Lab 5 Air Resistance Equipment Vernier computer interface microgram scale 8 basket style coffee filters Vernier Motion Detector Computers Logger Pro In this experiment you will measure terminal velocity as a function of mass for falling**

Flying Pig Objective To find the flying pigs period frequency Rotational Velocity Linear Velocity Centripetal acceleration Centripetal force with our own equipment available to us. Flying Pig Lab Answers FLYING PIG LAB ANSWERS Book this is the book you are looking for from the many other titles of Flying Pig Lab Answers PDF books here is also available other sources of this Flying Pig Lab applications of algebraic geometry to coding theory physics and computation nato science series ii ap stats chapter 9 test.

**Circular Motion Centripetal Force Physics AP Lab Kit To teach demonstrate and learn Motion in a fun way The kit consists of Flying Pig Centripetal Force Kit SpillNot and a Stopwatch**

Flying Pig Included A second activity uses a flying plastic pig so students can investigate the circular motion at an angle below the horizontal The lab includes instructions and materials for up to six students per lab group.

**LAB 8 Centripetal Force Objectives To determine the velocity of a flying toy and the tension in the string Equipment Holy Cow or Flying Pig a meterstick and a triple beam balance Type of Lab Open ended LECTURE NOTES Circular Motion Gravity PROBLEM SOLVING Circular Motion**

This is a centripetal force lab that uses a toy in the form of a flying pig A version of the Flying Pig lab is provided by one of the science equipment providers but my students found difficult to follow mathematically. The purpose of

this lab was to find the relationship between length and frequency angle speed and radius for an object flying in a circular path while attached to a string hanging from the ceiling. 1 Sketch the F c setup Label the radius F c mass m reference washer mass holder M 2 Measure the radius with the reference washer at its desired position Hang a 50 0 g mass on the F c set up This mass represents a force F c  $mv^2/r$  Let  $g = 10\text{ m/s}^2$  such that a 50 0 g mass has a weight F c equal to 0 5 N 3 Put your goggles on now Whirl and time the stopper for 10 revs in a. AP PHYSICS 1 INVESTIGATIONS AP Physics 1 Investigation 3 such as a flying airplane or flying pig or cow that moves like a conical pendulum This is a new twist on what is a familiar lab see "Circular Motion Studies with a Toy Airplane" in Supplemental Resources.

**Flying Pig will go if the string is cut at this instant Conclusion Explain how knowledge of the physics of circular motion would be important for designing the**

**swing ride pictured below for safety Title**

**Students used flying pigs to study centripetal acceleration and centripetal force They measured the period of the pig s rotation radius of the circular path and the mass of the pig to calculate**

The flying pig lab allows students to investigate the physics and mathematics of uniform circular motion A motorized plastic pig is suspended from a thin string and flies in a circular path with a constant speed. The Flying Pig is a fun way to investigate circular motion and centripetal force A staple of AP Physics. Check out our 2009 attendees doing the Flying Pig VIDEO Van de Graaff Fun at PTSOS Spring 2009 VIDEO For information on Time lab activity from Conceptual Physics Lab Manual 3 Conceptual Physics Worksheet 4 1 4 pages. Cassidy Zane Flying Pig Lab 5 1 There are two forces acting on the pig These forces are the tension and gravity and

forces 2 There s no acceleration in the vertical direction However due to the movement in a circular motion and changing directions there is acceleration in the horizontal direction 3.

**You can find our findings from all of the four projects listed**

When Pigs Fly? Lab Purpose 1 To measure the tangential velocity of an object in circular motion 2 To determine the centripetal force of an object in circular motion  $r$  3 To compare the theoretical velocity to the experimental velocity Draw a free body diagram of the pig flying in a circle showing only the forces that on it Ignore air. The latest Tweets from Belcher Physics BelcherPhys This is the class account for Dr Belcher s SAmericanSchool physics classes MORE FLYING PIGS This is the second flying pig lab in AP Physics C this time we are using forces and geometry to find the angle between the string and vertical SASedu modapphysics pic twitter com. Flying

Pig Lab Posted on December 2 2014 by admin ? No  
Comments ? This entry was posted in Mechanics UCM  
and tagged conical pendulum uniform circular motion by  
admin. Flying Pig When Pigs Fly they teach Avery fun  
way to learn about circular motion and centripetal force  
When hung from the ceiling the wings flap and the pig  
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