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vs. FGTeeV Chapter 1) Flying Pig Lab Answers**~~

Flying Pig Lab Answers Page 7/30. Bookmark File PDF Flying Pig Lab Answers 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

[Flying Pig Lab Answers - modularscale.com](http://modularscale.com)

Flying Pig Lab Answers 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 sligher" which will allow you to determine the radius of

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the pig's orbit.

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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 sligher" which will allow you to determine the radius of the pig's orbit.

[Flying Pig and Centripetal Motion - Las Positas College](#)

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[Flying Pig Lab Answers - atcloud.com](#)

to solve for the speed of the flying pig as a function of  $r$ ,  $\theta$ , and  $g$ .  
? (3) Use trigonometry to convert  $\tan\theta$  into a function of  $r$  (the radius of the circular path) and  $L$  (the length of the string). (4)

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From steps 2 and 3, derive an expression for the theoretical speed  $v$  of the pig as a function of  $r$ ,  $L$ , and  $g$ .

## LAB 7 When Pigs Fly - Cabrillo College

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## Flying Pig Lab Answers

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

Once the pig is up and flying in a circle of constant radius, measure the radius of the circle Find the angle and velocity once you have

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radius Throw pig in circular motion once again Once the pig is up and flying in a circle of constant radius, measure the time it take the pig to make 10 revolutions - then divide by 10

### The Flying Pig by Shwetha Kochi - Prezi

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. · To find the time we plugged in the number we got for frequency (2) into the equation ( $T=1/f$ ) · To find the Rotational Velocity we plugged in the numbers for the frequency into the equation ( $W=2\pi f$ )

### Flying Pig - Physics Slug

Turn the flying pig object on by turning the switch to 'ON'. 4. Grab a meter stick. 5. Grab the flying pig object and push it, to make it 'fly' in a conical pendulum. 6. Next, measure the radius of the flying pig by putting the meter stick parallel under the pig, and measuring the diameter.

### Post Lab Analysis by Varun Patel - Prezi

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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 sligher" which will allow you to determine the radius of the pig's orbit.

[Flying Pig Lab Answers - web.develop.notactivelylooking.com](http://web.develop.notactivelylooking.com)

mass 2.35 Kg:  $a = 0.5 \cdot 1/2.35 = 0.215$  (Answer: 0.214) mass 2.55 Kg:  $a = 0.5 \cdot 1/2.55 = 0.195$  (Answer: 0.196) Note: Although errors due to rounding, the equation is still correct due to the relative closeness of all answers.

[Newton's Second Law Lab Answers | SchoolWorkHelper](#)

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[Flying Pig Lab Answers - pompahydrauliczna.eu](http://pompahydrauliczna.eu)

The flying pig lab allows students to investigate the physics and mathematics of uniform circular motion. A motorized, plastic pig is

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suspended from a thin string and "flies" in a circular path with a constant speed. The pig and the supporting string trace a right, conical pendulum. Students measure the velocity of the pig directly, then ...

### Activity: Flying pig - AP Physics 1 Online

Find the flying pig's velocity in two ways. Materials: Flying Pig or similar toy, hook for hanging, meterstick, stopwatch Procedure: To Launch: 1. Hold the pig by its body, so that the string is about  $30^\circ$  from vertical. 2. Turn on the motor. 3. Give the pig a slight shove in a direction that is tangent to the circle where it will fly. 4.

### Rotation and the Flying Pig Teacher's Notes

Flying Pig Lab Answers - realfighting.it Flying Pig Lab Answers to solve for the speed of the flying pig as a function of  $r$ ,  $\theta$ , and  $g$ . ? (3) Use trigonometry to convert  $\tan\theta$  into a function of  $r$  (the radius of the circular path) and  $L$  (the length of the string). (4)

### Flying Pig Lab Answers

The Flying Pig Lab ... In the end I used the right equations, and I followed the right path to get an answer, but my end results seemed off. If I were to rate this lab out of 10, I would give it a 4. The

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lab let us think independently and logically, but at the same time the first half was a huge unknown for a lot of the students.

### AP Physics - Digital Portfolio Gregory Salsman

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.

### Solved: LAB 10: CENTRIPETAL FORCE-FLYING PIGS AP PHYSICS 1 ...

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 perfect opportunity for quantitative measurements of circular motion.

### Flying Pig with Flapping Wings - Arbor Scientific

Inquiry Overview This investigation is a guided inquiry in which students make measurements with a meterstick and use them to predict the period of a self-propelled mass, such as a flying airplane (or flying pig or cow), that moves like a conical pendulum.



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