

# Flying Pig Lab

The flying pig does not fly in a horizontal circle, but in a conical pendulum. This complicates our process for taking measurements.

## Procedures:

### Part 1: radius of the circle



1) Push the pig at a tangent to the circle in which you want it to fly. You apply a FORCE at a TANGENT to produce the centripetal force.

2) Give the pig a few times around to settle into a consistent sort of orbit.

3) Fly the pig over a meter stick to measure the diameter of the circle. Be as precise as you can. Record this in the data table.

4) Time the pig around 10 times and record this. Do it 3 times and average it.

5) Turn off the pig.

### Part 2: Period of the Pig

6) To calculate the speed of the pig, you need the period. Period is how long to go around once. Take the average time you just got and divide by 10. Record the Period.

### Part 3: Velocity of the Pig

7) To get velocity, You need to know the circumference of the circle. Use the formula  $P = \pi \times C$  to calculate this. Record it.

8) Finally, you need to calculate the velocity. Use  $\text{circumference}/\text{period}$ . Record this.

### Part 4: Centrifetal Acceleration of the Pig

9) Calculate the acceleration of the pig using  $a = v^2/r$ .

### Part 5: Weighing the Pig, 2 ways

10) Hang the pig back up with a spring scale between it and the support. Be sure to zero the scale before you start. Measure the weight of the pig in Newtons and record it.

11) This is the hard part. Set the pig in motion, hanging from the spring scale. The device is going to oscillate. You need to get the approximate centripetal force with it. Be sure the pig is flying consistently before you attempt to take a reading. Record it.

### Part 6: Mass of the Pig

12) Determine the mass of the pig using the hanging at right down/weight reading.  $W/g = \text{mass}$ .

# Flying Pig Lab Answers

**DP Hallahan**



## Flying Pig Lab Answers:

**The Black Wormhole** Q. Taylor,2020-12-21 The Black Wormhole is a novel about the incredible discoveries of Earth and the fantastic journey of two astronauts into one of the greatest mysteries of the universe The story starts you in the far future of mass Ion Collider production and space living then launches you into a fast pace adventure on a ride of interdimensional time travel into the strange anomaly now manifesting in the center of our Solar system Aboard the S W Hawkings space shuttle join astronauts John Shark and Duke Wheeler on their discover of new technology and a strange alien world as they navigate towards the Black Wormhole

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El-Hi Textbooks and Serials in Print ,2006 *Access* ,2000 *M31*

Stephen Wright,2020-01-07 A beautiful and terrifying novel about family faith and the search for home San Francisco Chronicle set amidst a community of UFO cultists in middlest America As regular guests on late night radio shows Dash and Dot are the world s most in demand lecturers on the topic of UFOs and alien abduction They believe that we are all descended from M31 the nearest galaxy to ours and divide their time between life on the road and a decommissioned church in the Midwest A radar dish on its steeple and a spaceship in its sanctuary complete the modern nuclear family setting When a couple of UFO groupies arrive at the church with their own agenda everything changes brought to a head by their strange beliefs and the timeless difficulties of modern life Dash and Dot set out on their last trip their ultimate journey with a destination that no one could foretell Written with a fevered vividness and immediacy M31 A Family Romance has been hailed as a devastatingly forceful accomplishment from a star of the first magnitude the Washington Post

**Prairie Farmer** ,1884 *Defense Production Record* United States. Defense Production Administration,1952 **Defense Production Record** ,1952 *Happy Days* ,1913 **The Country Gentleman** ,1913 *Farm Journal and Country Gentleman* ,1970-07 **Congressional Record** United States. Congress,1972 *El-Hi Textbooks & Serials in Print* ,2003 ,2003 *American Pigeon Journal* ,1945 **Mademoiselle** ,1998 **Wallaces' Farmer and Iowa Homestead** ,1952 **The Museum of Science and Industry Basic List of Children's Science Books** ,1986 **Popular Mechanics**

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web jul 10 2016 all algorithms in java breadth first search in java posted 2016 07 10 12 57 last updated 2019 12 14 04 54 the breadth first search algorithm is an algorithm used to solve the shortest path problem in a graph without edge weights i e a graph where all nodes are the same distance from each other and they are either connected or not

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web sep 29 2016 algorithms in java this article describes some very common algorithm in java 1 algorithm 1 1 motivation it could be argued that for most problems someone else has already written an implementation of an algorithm which solves this problem so rather by copying the implementation and using it you can also solve the problem

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web i am having problems figuring out how to implement parts of the a algorithm in java i have a decent amount of the code completed and have filled out the rest with psuedocode which i am having tr

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web the great majority of the algorithms provided by the java platform operate on list instances but a few of them operate on arbitrary collection instances this section briefly describes the following algorithms sorting shuffling routine data manipulation searching composition finding extreme values sorting

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web nov 26 2022 for example regent s park is directly connected to only baker street and oxford circus all pathfinding algorithms take as input a collection of all the nodes stations in our case and connections between them