



# My solar system phet lab answers

View My Solar System PhET Lab.docx from PSYCHOLOGY 2841 at Summit High School. Virtual Activity: My Solar System Name: \_ My Solar System PhET: AI Chat with PDF. Expert Help. ... Justify your answer using the equation and using a graph. Graph both relationships together and include a legend. View full document. Related Q& A

1. The simulation shows a planet and Sun orbiting about their center of mass. The planet's orbit is circular. Let's call the initial point A. Sketch your prediction of the planet's new orbit if you change the settings, increasing the initial velocity of the planet at A from  $(v_x, v_y) = (0, 120)$  to  $(v_x, v_y) = (0, 140)$ . (The velocity units are not specified.)

Founded in 2002 by Nobel Laureate Carl Wieman, the PhET Interactive Simulations project at the University of Colorado Boulder creates free interactive math and science simulations. PhET sims are based on extensive education & research; and engage students through an intuitive, game-like environment where students learn through exploration and discovery.

Physics questions and answers; PHET LAB MY SOLAR SYSTEM WORKSHEET Activity 5r: Add velocity to Body 2 (magenta) in increments of 2kms until it reaches a maximum radius of about 8 AU on the left side of its orbit. You can select the Fast option to make this go quicker.

View My\_Solar\_System\_Lab\_Revised.docx from SCIENCE 101 at Palmetto High School. PhET My Solar System Simulator Guide and Questions Directions: Use the directions below to use the My Solar System ... Answer all parts correctly, please.. THINK AHEAD Online Lab: Wien's law Name: Date: Objective 0 Describe what happens to the blackbody spectrum as ...

Interact with the variables to discover how planetary objects moves in elliptical orbits, and the other characteristics of these orbits described by the three Kepler's Laws. Connect Astronomy with Math, by experimenting with ellipses, areas, and graphs.

Phet Solar System Simulation Lab: Pauline Seales: HS: Lab: Astronomy Physics: Worlds of Wonder: Dean Baird, Paul G. Hewitt: UG-Intro HS: Lab: Physics Mathematics: Solar System Momentum: Juan Fernandez: HS: Lab: Physics: Satellite Motion Lab: Scott Goelzer: HS: Lab: Earth Science Physics: Things you can show with "My Solar System" Carlo Smits ...

Explain your answer. 6. Reset the simulation (turn Show Traces back on if you wish), and increase the mass of the Sun (body 1) to 400 and allow the simulation to run for one complete orbit of the purple planet (body 2).

In this online activity, learners build their own system of heavenly bodies and watch the gravitational ballet.



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With this orbit simulator, learners can set initial positions, velocities, and masses of 2, 3, or 4 bodies, and then see them orbit each other.

Advanced Physics questions and answers; PHET ONLINE LAB MY SOLAR SYSTEM WORKSHEET PLEASE HELP Activity 68 Select the "Sun and Planet" preset from the drop-down menu in the upper right. Clickstart and observe the motion of Body 1, in this system, the mass of the small body is not insignificant relative to the larger body.

AP Physics - Virtual Solar System Lab . The purpose of this exercise is to test and reinforce concepts regarding orbital motion such as Kepler's Laws of Planetary Motion and Newton's Laws of Motion and Universal Gravitation.

My Solar System Phet Lab Answer Key The Engaging Realm of Kindle Books: A Thorough Guide Unveiling the Benefits of E-book Books: A Realm of Ease and Flexibility Kindle books, with their inherent mobility and simplicity of access, have liberated readers from the limitations of

My Solar System by PhET. Course, Subject. Earth Science, Physics, Math, Science & Technology. Grade Levels. Commencement, 9th Grade, 10th Grade Description. This simulation will allow students to build their own solar system of a sun, planets and moons, and watch their paths as they move about one another. With this orbit simulator, you can set ...

How do PhET simulations fit in my middle school program? Sarah Borenstein: MS: Other: MS and HS TEK to Sim Alignment ... HS UG-Intro: Lab: Solar System Momentum: Juan Fernandez: HS: Lab: Satellite Motion Lab: Scott Goelzer: HS: Lab: Things you can show with "My Solar System" Carlo Smits: K-5 MS: CQs Demo: AP Physics Orbit Lab: Dan Burns: HS UG ...

Here's a link to the 2021 replacement: Milo's Solar System. Read on for details. See, I can't do live experimentation with gravitation. I can \*predict mathematically\* how to retain a circular orbit when the mass of the central planet is doubled: Set the formula for gravitational force equal to the centripetal force.

My Solar System Lab Introduction: Every physics student has had experience with the force of gravity. For most, this experience is ... Go to the "My Solar System" simulation on the PhET website, and carefully follow the instructions below for each activity. Answer the questions, and record your results before going on to the next activity.

5. After the first orbit (year), turn off the traces (show traces box) and watch another orbit (year) of the purple planet (body 2). Question One: Is blue moon (body 3) circling the yellow sun (body 1) or the purple planet (body ...

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of the central ...

Physics questions and answers; In the learning activity My Solar System (PhET Sim &quot;My Solar System&quot;) choose the lab. You have to click it twice. Play with the settings for Mass 1 and Mass 2 and choose all the options for Center of Mass, speed, velocity and gravity force. You can change the masses of the two objects.1.

Web: <https://ekusenitours.co.za>