

Lady Bug Revolution Activity

Name _____

Date _____

Period _____

Instructions: Go to http://phet.colorado.edu/simulations/sims.php?sim=Ladybug_Revolution and launch the app found there. (You could also search for "Ladybug Revolution" to find the app.) Be sure to answer all parts of each question, answer questions marked "C.S." in complete sentences, and show all work for calculations. Box your answers, include units, and write neatly.

1. Use your notes, the book, or the internet to define angular (aka rotational) velocity. (C.S.)
2. Under show graphs click on θ , ω , v . Click the minimize button on the θ graph. Type 180 in for angular velocity and click "go". This will make the turntable turn at a rate of 180° per second. Look at the vector arrows coming from the ladybug. A) What direction is her centripetal acceleration? B) What direction is her tangential velocity?
3. Experiment with changing to location of the ladybug and beetle on the wheel. How does position relative to the center of the wheel affect the angular velocity? (C.S.)
4. Click on the ruler box at the bottom left of the screen. A) How long is the ruler? (Always include units!) B) How wide is each band of color on the turntable?
5. Place the ladybug a known distance from the axis (center) of the turntable. A) Record the ladybug's tangential velocity as V_L . (This is simply referred to as velocity on this simulation, and it is written in green on the velocity graph.) Place the beetle twice as far from the axis. B) Record the beetle's tangential velocity as V_{B1} . C) Move the beetle three times as far from the axis. C) Record the beetle's tangential velocity as V_{B2} . D) Explain how the radius (distance from the axis of the turntable) affects the tangential velocity? (C.S.)
6. A) Record both bugs' tangential velocities. Double the angular velocity to 360°/s and record the new tangential velocities. How does doubling the angular velocity affect the velocity of the bugs? (C.S.)
7. Since the angular velocity is currently 360°/s, the period T is 1 rotation/s. A) Using $v = 2\pi r/T$, calculate the tangential velocity the beetle would have if you moved him to the edge of the turntable (a radius of 4 m from the axis). B) Move the beetle to $r = 4$ m and record his tangential velocity.
8. If the huge beetle has a mass of 8.0 kg, find his centripetal acceleration a_c . D) What is the average centripetal force F_c on the beetle?
9. If the ladybug has a mass of 6.0 kg and is at a distance $r = 1$ m, find her A) velocity, B) centripetal acceleration, and C) centripetal force.

Ladybug Revolution Phet Answers

Chao Zhang



Ladybug Revolution Phet Answers:

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Table of Contents Ladybug Revolution Phet Answers

1. Understanding the eBook Ladybug Revolution Phet Answers
 - The Rise of Digital Reading Ladybug Revolution Phet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ladybug Revolution Phet Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ladybug Revolution Phet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ladybug Revolution Phet Answers
 - Personalized Recommendations
 - Ladybug Revolution Phet Answers User Reviews and Ratings
 - Ladybug Revolution Phet Answers and Bestseller Lists

5. Accessing Ladybug Revolution Phet Answers Free and Paid eBooks
 - Ladybug Revolution Phet Answers Public Domain eBooks
 - Ladybug Revolution Phet Answers eBook Subscription Services
 - Ladybug Revolution Phet Answers Budget-Friendly Options
6. Navigating Ladybug Revolution Phet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ladybug Revolution Phet Answers Compatibility with Devices
 - Ladybug Revolution Phet Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ladybug Revolution Phet Answers
 - Highlighting and Note-Taking Ladybug Revolution Phet Answers
 - Interactive Elements Ladybug Revolution Phet Answers
8. Staying Engaged with Ladybug Revolution Phet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ladybug Revolution Phet Answers
9. Balancing eBooks and Physical Books Ladybug Revolution Phet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ladybug Revolution Phet Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ladybug Revolution Phet Answers
 - Setting Reading Goals Ladybug Revolution Phet Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ladybug Revolution Phet Answers
 - Fact-Checking eBook Content of Ladybug Revolution Phet Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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