



Name : _____ Date: _____

Investigation – Wave On A String

In this lab you will be taking measurements (wavelength and time period) from a wave simulated by a computer application. You will use these measurements to create a graph by hand. From your graph you will find the speed of the wave.

1. **Setting up the math.** There are two equations that we will be working with: $v = \lambda f$ and $T = \frac{1}{f}$. In the space below, state what each of the letters in the formulas stand for.

2. **More math set up.** After you have collected you data, you will be creating a graph of λ vs. T (y vs. x). Using the equations given in step 1, show that the relationship between T and λ is given by the equation: $\lambda = v \times T$.

3. **Terminology.** On the diagram below, label the following: *half-a-wavelength*, *wavelength*, *source of disturbance (SOD)*.



4. **Setting up the program.** Start the program as instructed by your teacher and make sure that the settings are as given below:
- Set the *Amplitude* to 60%.
 - Set the *Frequency* to 15%.
 - Set the *Damping* to 0%.
 - Set the *Tension* to high.
 - Check the boxes for *Rulers* and *Timer*.
 - Set the radio buttons to *Oscillate* and *No end*.
 - Press *Pause*.
 - Drag the horizontal ruler until it is lined up with the horizontal dashed line, and its zero is at the left end of the string.

Waves On A String Phet Lab Worksheet

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Table of Contents Waves On A String Phet Lab Worksheet

1. Understanding the eBook Waves On A String Phet Lab Worksheet
 - The Rise of Digital Reading Waves On A String Phet Lab Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Waves On A String Phet Lab Worksheet
 - 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 Waves On A String Phet Lab Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Waves On A String Phet Lab Worksheet
 - Personalized Recommendations
 - Waves On A String Phet Lab Worksheet User Reviews and Ratings
 - Waves On A String Phet Lab Worksheet and Bestseller Lists

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