



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.

Phet Wave On A String Worksheet Answers

BM King



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