**STATION 7: DON’T STAND FOR THIS**

Use the wiggler and string device on your table to answer the following questions. The reading on the timer is the *frequency in hertz.*

1. ) Name the type of wave generated on this device.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. ) Which harmonic is shown? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. )What is the wavelength of the waves (wave pattern) being generated? (you can use the meter stick to help you)

4.) At about what frequency would you expect to find the fundamental?

\_\_\_\_\_\_\_\_\_\_\_\_*Explain how you found this.*

5.) How many nodes are in the wave pattern shown?\_\_\_\_\_\_\_\_\_\_

6.) What type of interference is occurring at the nodes?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7) How many wavelengths are shown in the wave pattern on the string?\_\_\_\_\_\_\_\_\_\_\_

8) What are the “bumps” on the wave pattern called? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9.) What would the wavelength of the fundamental wave pattern be for this string, on this device?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10.) Which way is the energy traveling in this system?