

Student Data Sheet

Measure the Wavelength of a LASER

LASER COLOR: _____

Diffraction Grating Lines/mm	Slit Width (d) cm/line	Distance from grating to screen (L) in cm	Distance from maximum to maximum (X)

Choose 3 distances from the screen

Determine the wavelength of the laser

Use the values of X, d and L from the data above and the double slit formula

$$\lambda = (X) (d) / L$$

to determine the wavelength of the laser. Average your three computed values and determine a final average for the wavelength.

	$\lambda = (X) (d) / L$	$\lambda = (X) (d) / L$	$\lambda = (X) (d) / L$	Average Wavelength
Show all substitutions of data into formula				
Final Value (cm)				
Final Value (microns)				

