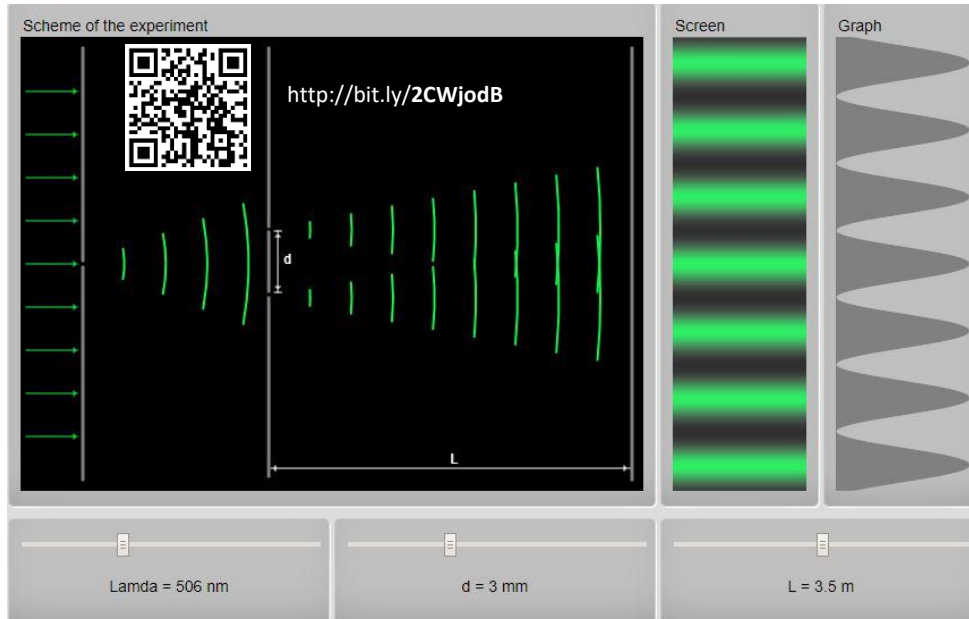


# Young's Double Slit – Virtual Investigation

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## Young's Double Slit Equation

$$\frac{\Delta x}{L} = \frac{\lambda}{d}$$

Predict, using the equation, the effect on the spacing between the bright bands,  $\Delta x$ , as:

- The wavelength goes from red light (large wavelength) to blue light (small wavelengths).
- The slit separation,  $d$ , becomes smaller.
- The distance of the slits,  $L$ , to the screen gets smaller.

- Visit the applet above to check your answers to the following questions by using the applet.

### General Question:

Does Young's two slit interference experiment help the wave theory of light argument? Explain.