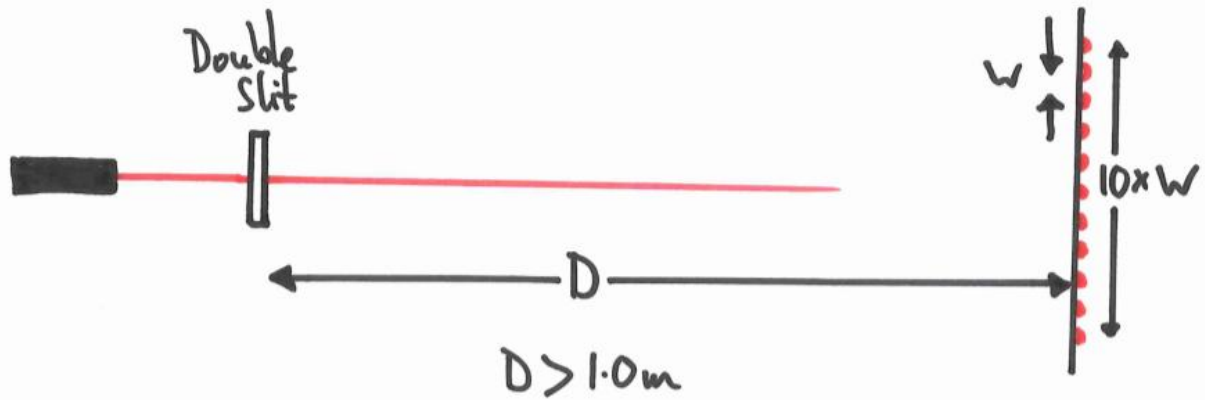


A Level Physics Online

The Wavelength of Light using a Double Slit



$D > 1.0\text{m}$

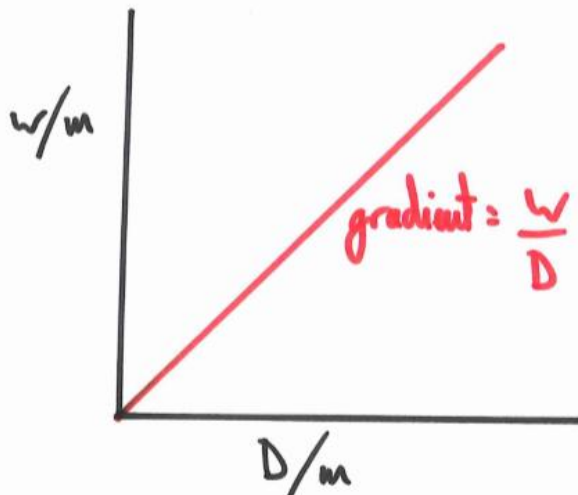
$$\lambda = \frac{wS}{D}$$

$$\left(\lambda = \frac{ax}{D} \right)$$

S or x = slit separation

w or a = fringe spacing

D/m	w/m



Don't look into the laser beam!

$$\lambda = \frac{wS}{D} = \text{gradient} \times S$$

$\lambda_{\text{red light}} \approx 622 - 780 \text{ nm}$

