Thumbnail Summary of Waves

Wave relationships:

Wavelength, frequency, speed, amplitude, intensity $v = f\lambda$, $I = A^2$, etc.

2-slit interference:

Phase difference depends on source phases and path lengths.

 $A_{tot} = 2A_1 \cos(\phi/2)$, etc.

N-slit interference:

Diffraction gratings, Rayleigh's criterion.

1-slit diffraction:

Circular apertures, Rayleigh's criterion, limits on optics.

Interferometers.

We'll use many of these results when we study quantum mechanics.