Lab 6: Double-Slit Interference, Part Two

When a beam of light passes through two thin slits, something funny happens. The light creates a pattern on the other side that looks like this:

This is what we call an "interference pattern". This week you will be investigating this phenomenon.

Questions:

You have chosen two factors to explore for a possible relationship to the spacing of the bright spots. How well can you describe these relationships?

After observing what other groups in the class have done, can you pool together all the information and build a more accurate model of what things affect the spot spacing?

Timetable

I. Data Analysis:	**60 min**	**Groups of 4**
II. Group Presentations:	**25 min**	**Whole Class**
III. Class Discussion:	**10 min**	**Whole Class**
IV. Writing the Lab Report:	**15 min**	**Groups of 4**