

## *Lab: Double-Slit Interference, Part Two*

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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**

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