



CD Spectrometer

Category: Stall/Talk Demonstration or Simple Workshop

Note electronic versions of all supporting documents are found on the memory stick in this tray.

Overview

In this project the concepts of diffraction and refraction are touched upon through the building of a DIY spectrometer. A cereal box has a narrow slit cut into it at the top and an angled slot cut into the edge. You then place a CD into the angled slot. Finally, a square is cut out on the opposite side of the CD to act as a viewport. When white light is passed through the narrow slit on the top of the cereal box and spectrum can be observed through the square viewport. Details on how to cut the box are shown at the bottom of this document.

Contents

For each group ensure you have the following:

Cereal Box	
CD	
White light source	
USB memory stick with teaching materials	

How to make a CD spectrometer

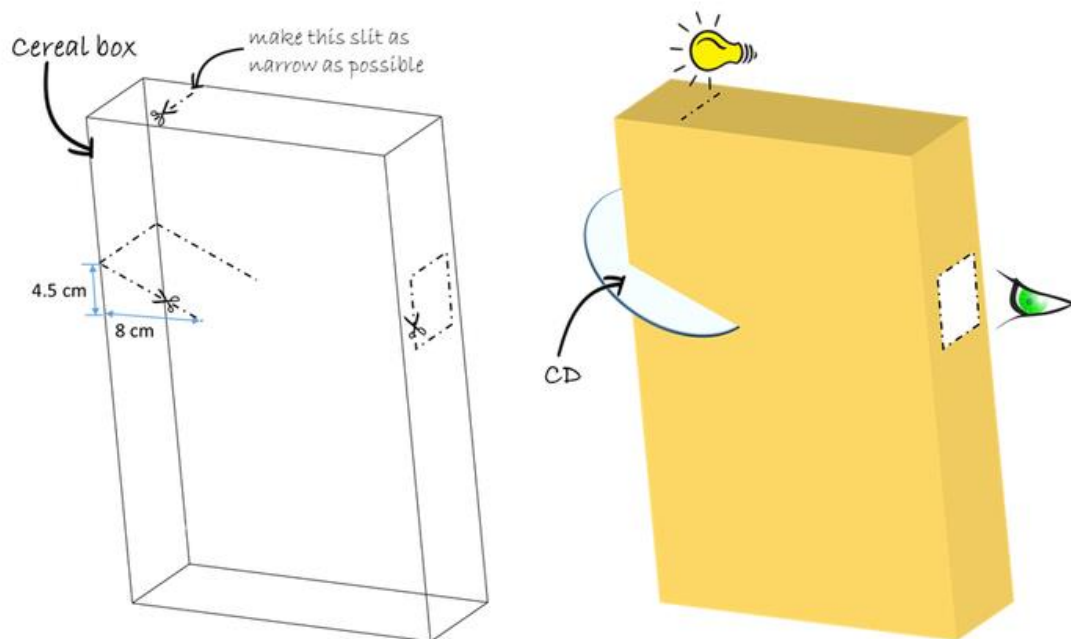


Figure 1: From Dr R. Thompson with permission.