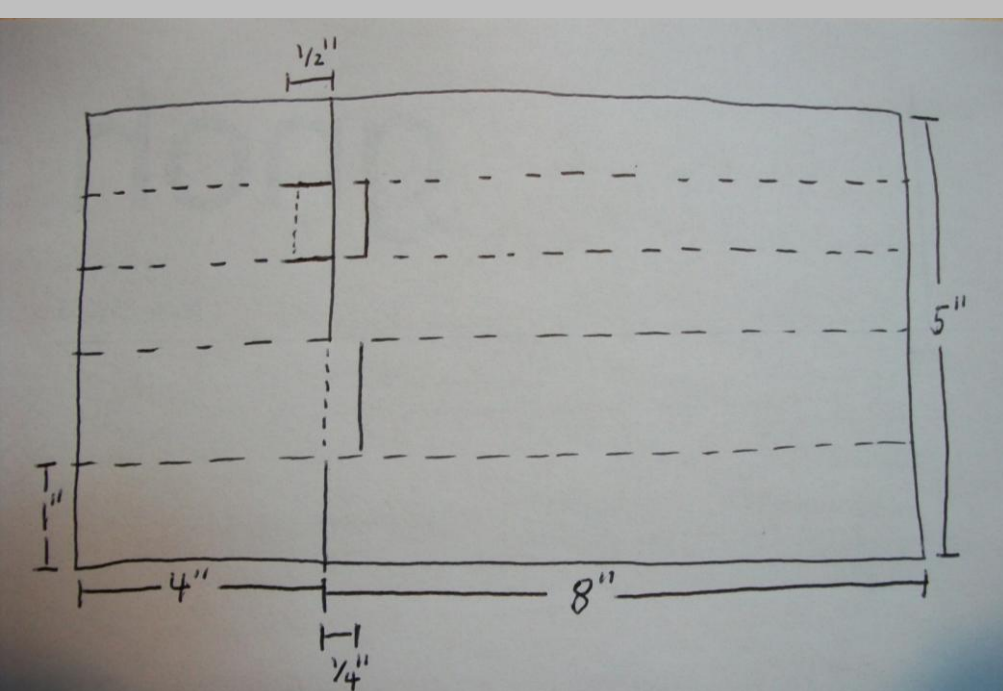


Make a Spectrometer

Supplies:

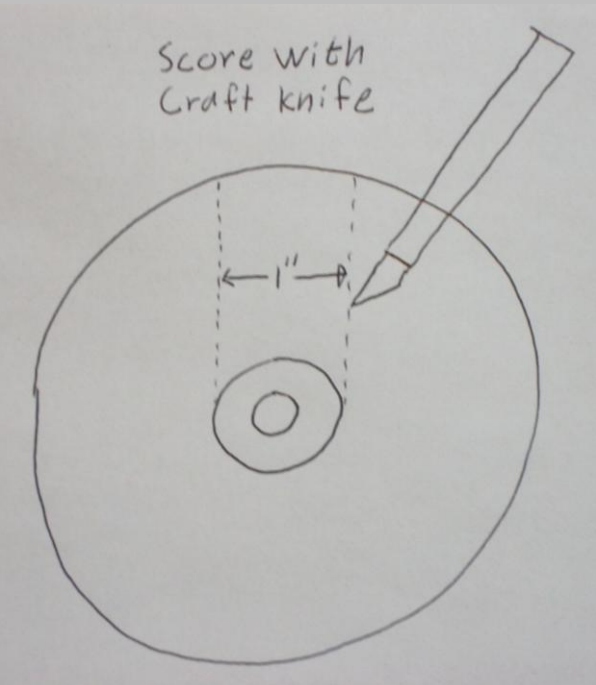
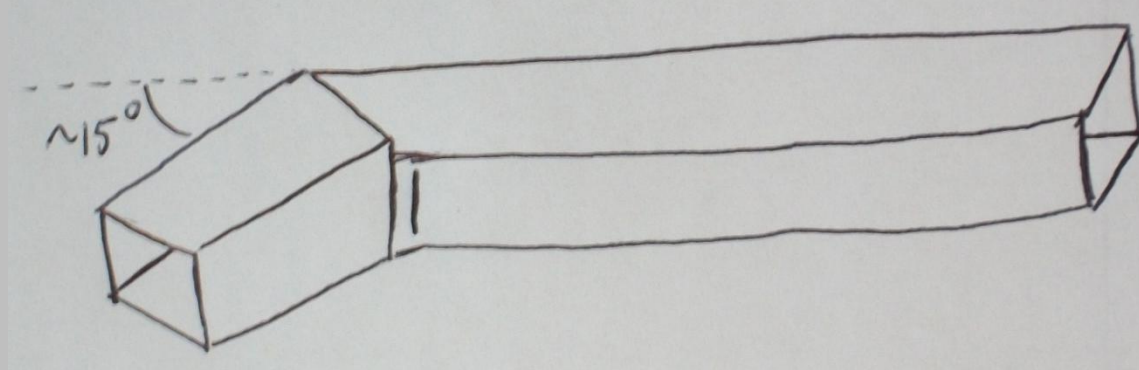
- Black cardstock
- Packing tape
- CD
- Scissors/craft-knife
- Camera



Cut out a rectangle of black cardstock 5"x12"

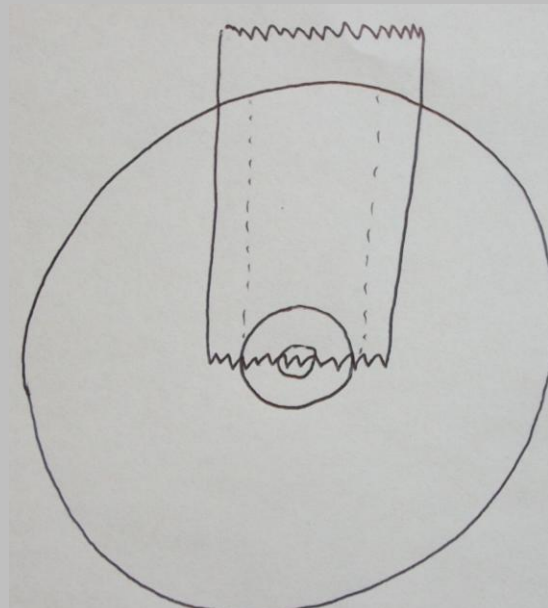
Make the additional cuts shown as solid lines

Fold the cardstock into a tube, bending 4" section

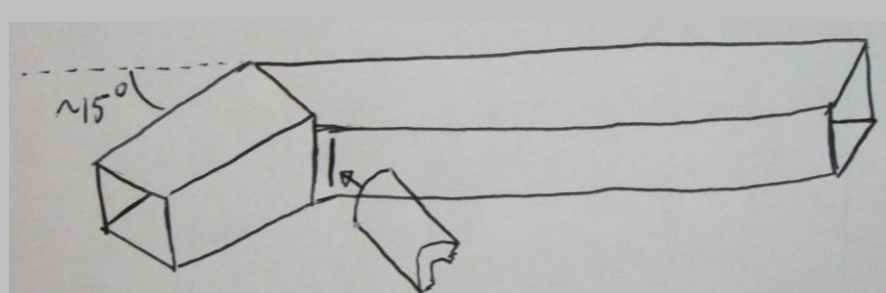
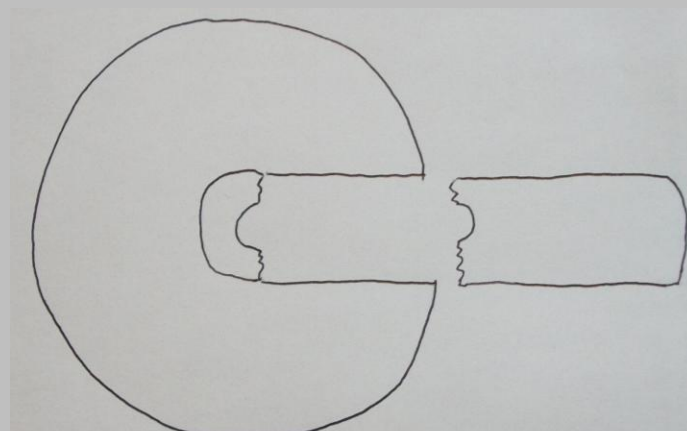


Use a craft knife to score lines into the label of a blank CD

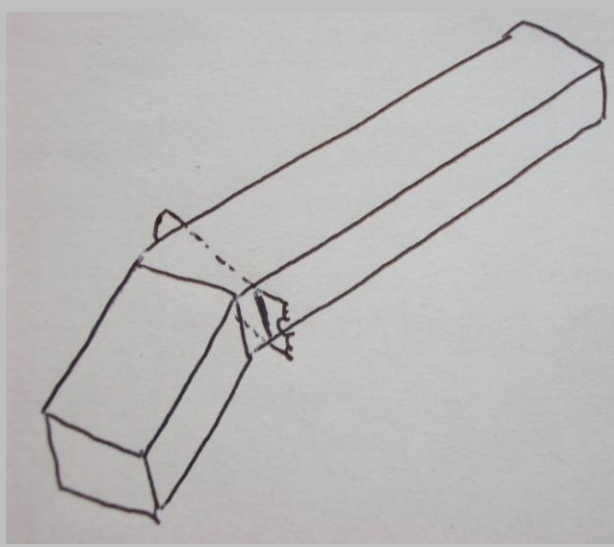
Apply packing tape over scored region



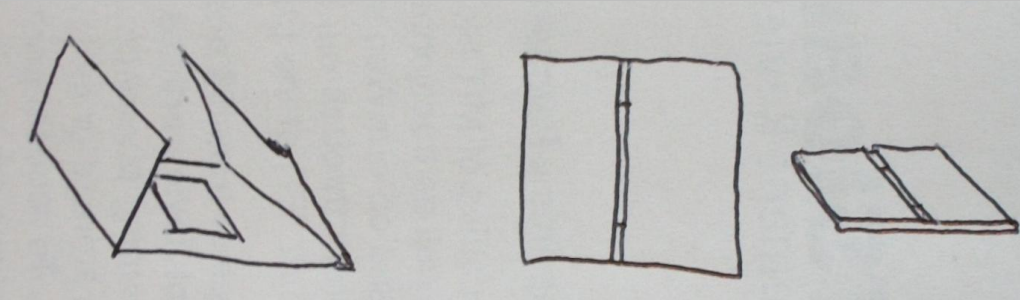
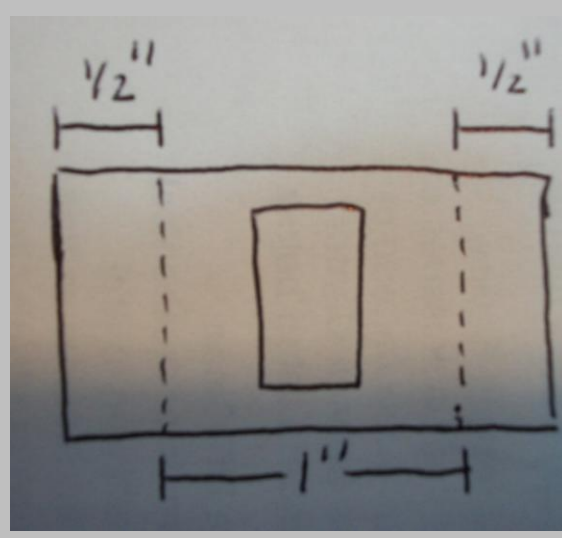
Peel off packing tape, removing foil. With scissors, cut out CD segment



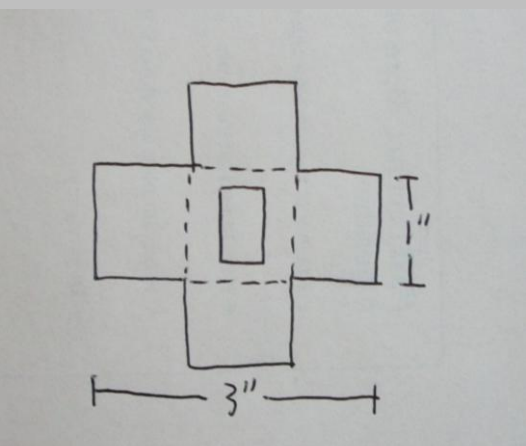
Insert CD segment into slits cut earlier into tube



Make slit: Cut piece of black cardstock to these dimensions. The straighter the cuts, the sharper the spectrum



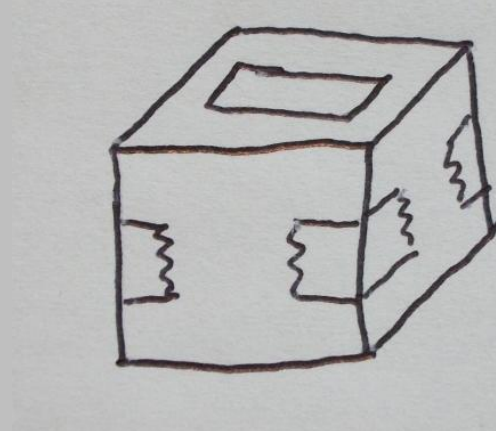
Fold cardstock as shown, creating thinnest possible slit



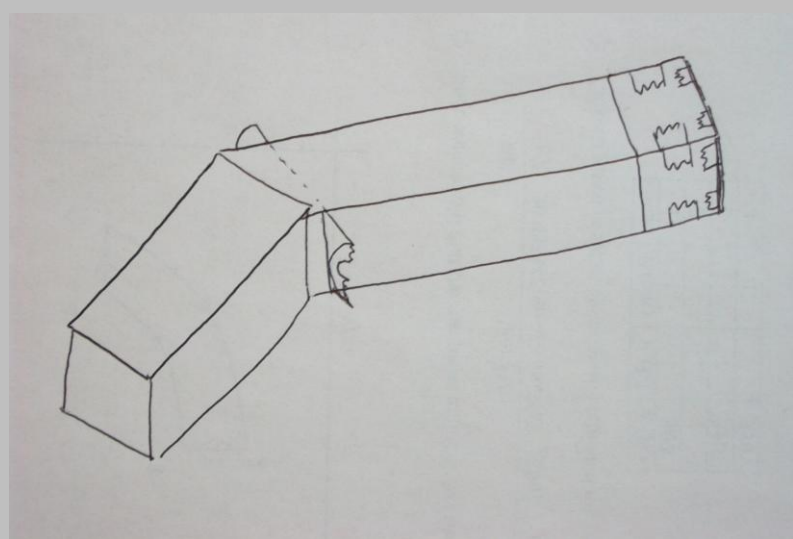
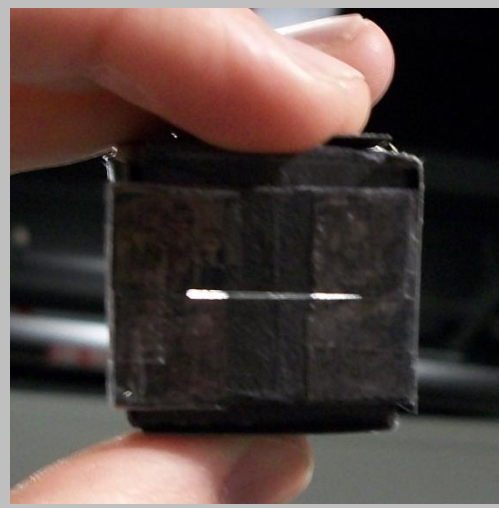
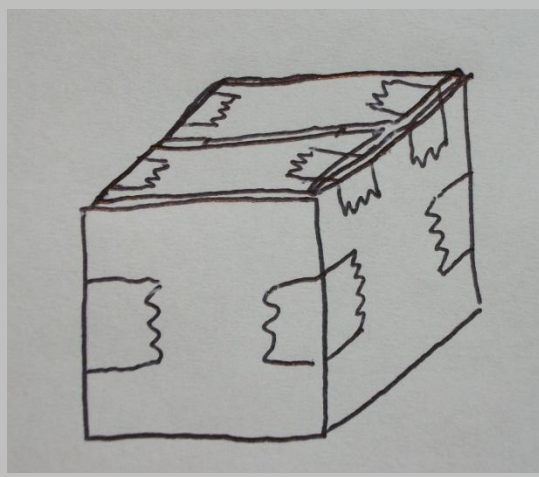
Cut black cardstock to these dimensions

This will be used to mount the slit to the spectrometer

Fold and tape into a cube



Tape slit onto top face



Slide slit mount onto end of spectrometer, with the slit vertical

Photograph spectrum and upload them to <http://spectrometer.publiclaboratory.org/>

