

Public Lab's

# Papercraft Spectrometer v2.0.9

Open Source CERN OHL v1.2

This open source hardware design was developed by contributors like you. Have questions? Ideas for improvement? Want to collaborate with others?

visit: [PublicLab.org/paper](http://PublicLab.org/paper)

This template can be photocopied for reuse! For best results, use cardstock or a similar heavy paper. Make sure to do double-sided copies so the black box and slit cutout will print on the opposite side.

What you'll need:

- scissors
- tape or glue
- a butter knife or ballpoint pen
- a DVD-R

## Instructions

more info at [PublicLab.org/paper](http://PublicLab.org/paper)

1. Cut out the spectrometer along the red lines (these may be grey if photocopied in black & white)

2. Use a butter knife or ballpoint pen to score the dotted lines for folding



3. Fold over and cut out the "windows" at A1, A2, & A3



Mountain fold



Valley fold

4. "Mountain" fold along the dotted lines: - - - - -

5. "Valley" fold along dashed lines: - - - - -

6. Cut, peel, and attach DVD-R fragment (see A3 for directions)



7. Assemble the slit cutout on the opposite side. Tape the slit over window A2 and trim as needed.

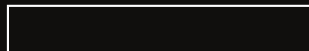
8. Align tabs B, C, D & E and tape or glue them down.

9. Visit [PublicLab.org/makespec](http://PublicLab.org/makespec) to learn how to calibrate and use your new spectrometer!

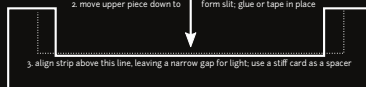
## DIY Spectrometry Paper Slit

Instructions: [PublicLab.org/makespec](https://publiclab.org/makespec)  
Open Hardware - CERN OHL 1.2

1. cut out bar and U-shape below, keeping lines as straight as possible



2. move upper piece down to form slit; glue or tape in place



--- aim for this narrow - 0.4mm - or less; hold up to light to compare