

1

Cut along here

Cut along here

Make your own spectroscope

1. Cut along all solid yellow lines with scissors, including line a, and cut out the rectangle b and circle c.
2. Fold along all the dotted lines.
3. Make the template into a box by joining the same numbered flaps together, e.g. 1 joins to 1.
4. Put a CD into the box through the slot you made at line a with the bottom "rainbowy" side of the CD facing upwards.
5. Look into the box through the circle and you should be able to see white light split into a rainbow.
6. Try looking at different types and colours of light and see what changes in your spectroscope.

2

3

a

Cut along here

Cut along here



b

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Cut along here

Cut along here

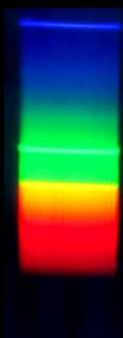
What does a spectrum look like?



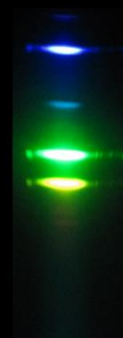
White light spectrum (light bulb)



Fluorescent lighting (x2) (exact spectra depends on type of fluorescent coating)



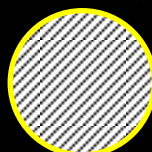
Sodium lamp (streetlight)



Mercury lamp

2

3



c

WARNING: Do not look directly at the sun even through this spectroscope
Do not look at LASER light with this spectroscope

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1