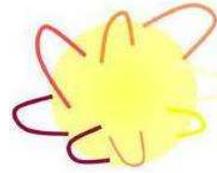




How to build a **spectroscope**

What do you need:

Pen, scissors, black cardboard, glue,
Scotch tape, a piece of CD



Warning:

Do not look at the Sun with the spectroscope, it is dangerous for your eyes!

What is a spectroscope?

A spectroscope is a device to divide the rays of light in their different colors: it is the Spectrum of the light.

The property of the CD

When you look at CD you can see the colors of the rainbow. It is the spectrum of the light. If you want to get a clearer spectrum, you have to drive (with a black box) the rays of light...



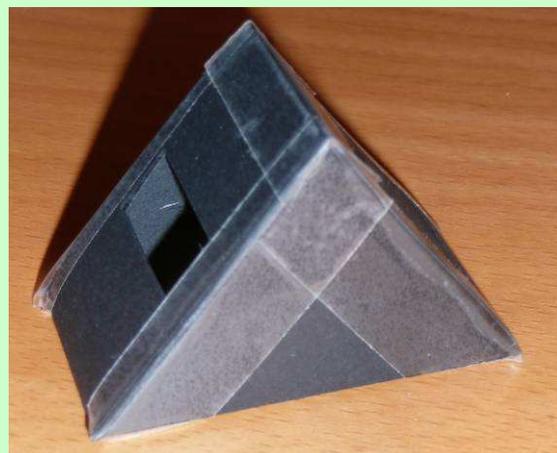
The building

Draw on the black cardboard the model of the spectroscope, cut it, ask to the teacher to cut the fences.

Take a piece of the CD, stick it. Fold and stick the black cardboard



The Black_cardboard ready for folding.

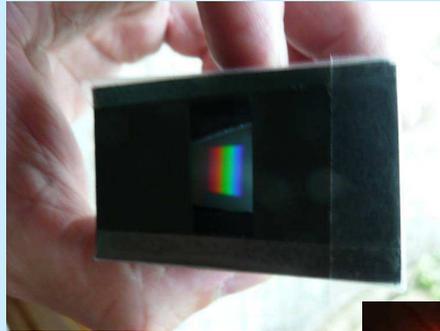
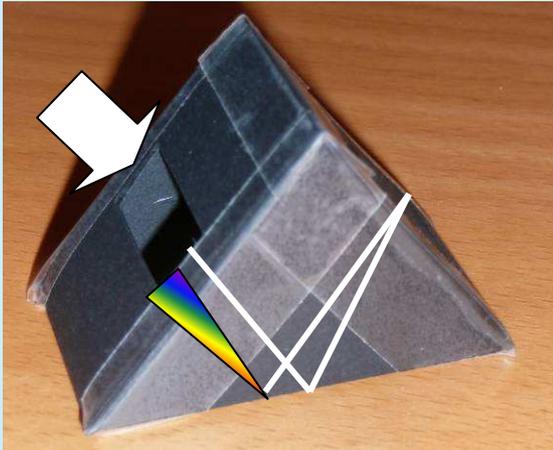


The cardboard is folded and stuck

Contest : Design your Spectroscope with a drawing (use white stickers given by the teachers)

How can we see the spectrum:

You have to see inside the larger fence of the spectroscope, you can see the smaller fence on the CD. If you look down on the Cd you can see the spectrum. (see the pictures below).

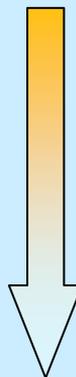
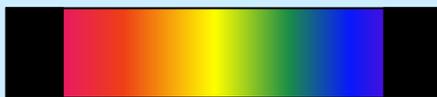
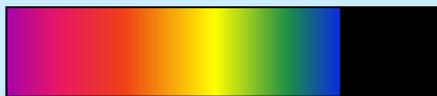


What kind of spectrum you can get.

You can see the spectrum of the sky and the spectrum of the lights in the room. What is the difference between them?

The spectrum depends on the temperature

The temperature of a blue star is higher



The spectrum depend on the kind of atom

Sodium



Mercury



Hydrogen

