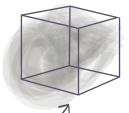
How to Make a ... CAMERA DBSCURA

museo galileo

SUPPLIES NEEDED



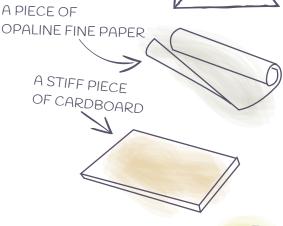




A SHOE BOX

OF THE FOLLOWING DIMENSIONS

45X45X60



IT COULD BE USEFUL TO HAVE ...

- A BLACK PIECE OF CLOTH TO MORE CLEARLY SEE THE IMAGES

- BLACK TEMPERA PAINT AND BRUSH TO PAINT THE INSIDE OF THE BOX BLACK





PREPARATION OF THE BOX:

- one side of the box must be open

- on the opposite side make a small hole the same dimensions of the size of your lens in a way that you can wedge it in perfectly

- if the inside of the box is not already a dark color, we recommend that you paint it black with tempera paint

PREPARATION OF THE SCREEN:

- cut the cardboard in a what that it slides into the box

- at 5 cm of distance from the edge draw another rectangle

- cut this new rectangle out with the exacto knife

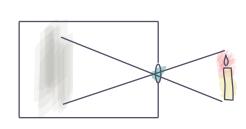
- attach the opaline paper to the inside of the frame using scotch tape

HOW TO WORK THE CAMERA OBSCURA:

- set the box on a table with the open side facing you and the side with the lens pointed towards the object that you would like to visualize

- make sure that the object is well-illuminated

- slide the cardboard frame inside of the box



FOCUSING YOUR IMAGE:

 in order to focus the image on the piece of paper you will need to slide frame forwards and backwards until it has become in perfect focus

TIPS AND TRICKS

et voila The Magic of Light

- you can purchase a convex lens at a hardware store

- the biconvex lens can be purchased from the hardware store

- it works best if the object is well illuminated

- this experiment works best if carried out in a dark room or by covering you and the box with a dark cloth, like those you see of old-fashioned cameras, on the side of the box that is opened towards you

