

How does Pinhole Projection Work?

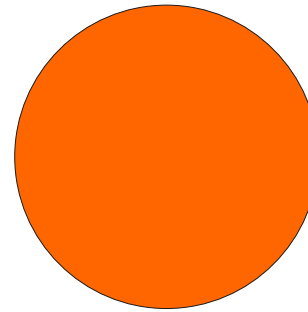
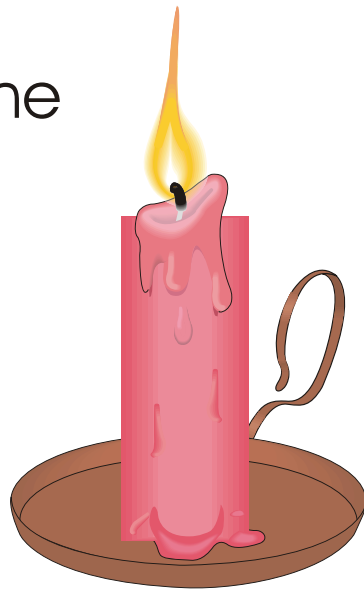
You need: **(1) The Light Source**

This is the object that you want to project - it must give off light.
It can be:

the filament
of a light bulb



a flame



the Sun

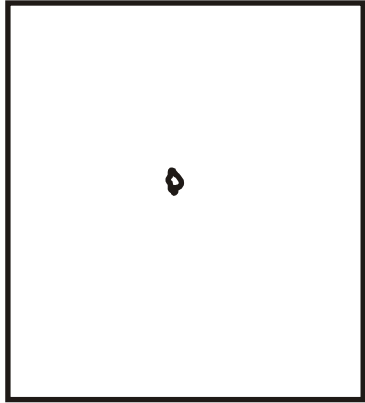


**the Sun
during
an eclipse!!**

How does Pinhole Projection Work?

You need: **(2) The Pinhole Projector**

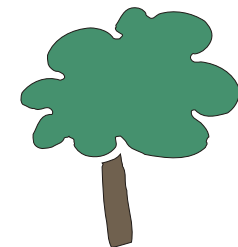
This is just a small hole - it can be any shape, it must be small.
It can be:



a hole, about
2mm wide, in a
piece of paper



the gaps between the
leaves of a tree



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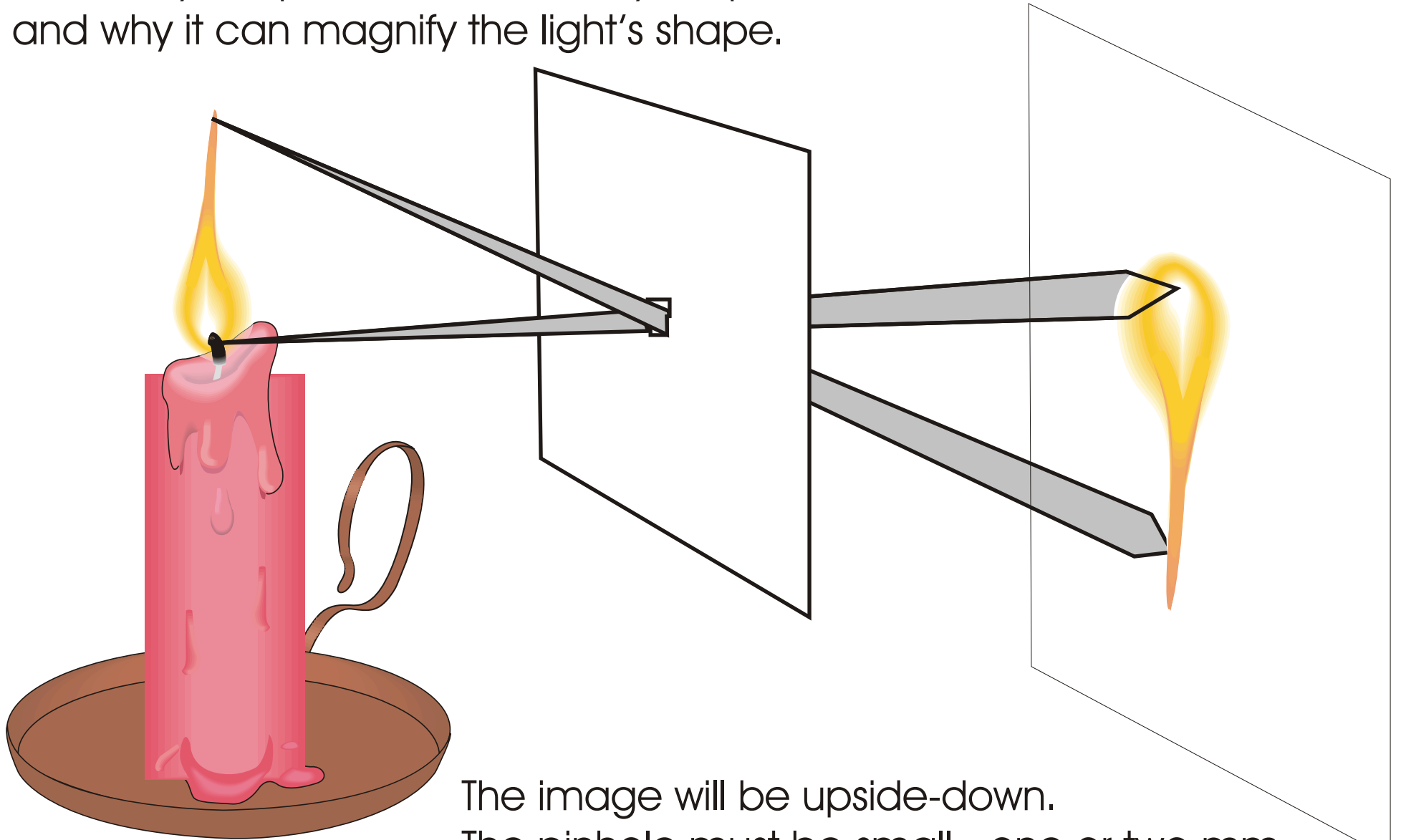
You need: **(3) A “screen”**

Something flat and white - this can be a piece of paper, but you might want to tape a few pieces together to make the screen bigger, if you want to photograph your results



How does Pinhole Projection Work?

The pinhole directs small parts of the light to an “image” on the screen. This is why the pinhole can be any shape, and why it can magnify the light’s shape.



The image will be upside-down.
The pinhole must be small - one or two mm.
The screen must be far enough from the pinhole.