

Mirascope



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FILM

 **Science or Fiction?**

KEY OBJECTIVES

- 1 **To understand the law of light.**
- 2 **To understand rules of reflection of light through a spherical mirror.**

INTRODUCTION

Everyone must be quite familiar with the magnifying glass, right? What we can see is that virtual image. The mirror you often look at, it's also a virtual image. And virtual images, we look quite familiar, so it's not interesting anymore. But most of you probably really like 3D film because of its special image, right? Today's experiment will show you a real, visible, visible image as if the real thing is there. But it's a photo, so it can't be touched at all!

GUIDING QUESTIONS

- Is the image we see a real image or a virtual image?

MATERIALS/PREPARATION

- 2 concave mirrors. You can hunt this dish at stores that sell decorative glass mirrors.
- Paperboard
- Knife
- Adhesive tape
- Scissors
- Small steel wire
- Drill
- Sandpaper

TOPICS

Light reflection

KEYWORDS

Mirascope concave mirror

LEVEL

Secondary School

RESOURCE TYPE

Project

INTENDED AUDIENCE SIZE

Group 4-6

MODE OF DELIVERY

online

TIME FOR ACTIVITY

15 min.

Mirascope



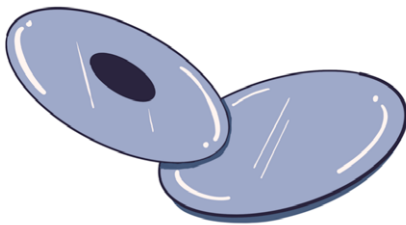
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TASKS/PROCEDURE

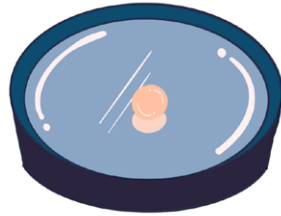


- 1) This step is very difficult if you lack the tools. You need to cut a round hole 1.5cm in diameter at the top and center of the mirror. Note that only 1 mirror is drilled!

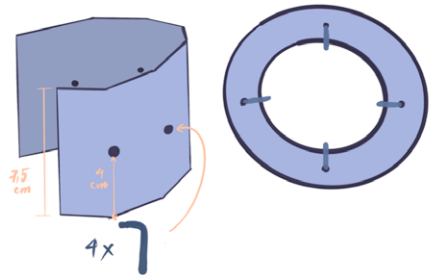


If you can drill holes, just use it. If not, use an iron rod, punch a hole about 5mm, then roll sandpaper into the wand and grind it slowly until the hole is as wide as you want.

- 2) Fix the remaining mirror to a base. Here I took my aluminum candy box and glued it with candle glue. This step is simple! Note, to test relatively whether you have glued the scale or not, there is a way as follows. While the glue has not dried, you put 1 marble in the mirror, move the mirror so that the marble is in the center of the mirror, that is satisfactory.



- 3) Make a support frame for the upper mirror. Cut the cardboard and roll it up. Then punch 4 small holes 4cm from the bottom. Cut 4 pieces of steel wire, bend it into an L to plug into the body of the support frame.



Note:

At this stage, you need to try and align very carefully. Find a small object, smaller in size than the hole in the perforated mirror, put it on and try to see if the object has created the required image.

If it meets the requirements, then hit it badly, punch holes, attach the steel wire and fix it with adhesive tape.

After correcting, fix the frame with adhesive tape. So we have a real image maker – Mirascope is complete!

Mirascope

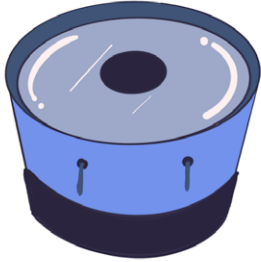


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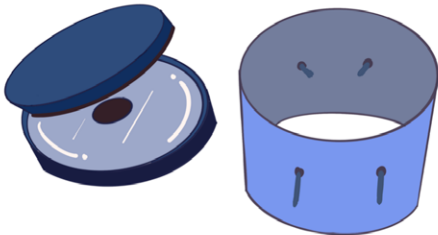
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AUTHORS AND SOURCES

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After using this set, I put it in a box to store it, very convenient!



And that's it, enjoy the magic of virtual reality!