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HOLOGRAPH MANUAL

INTRODUCTION

Hologram is a physical object that uses principles of reflection and refraction to form a 3D image. The image that appears to be an illuminated object can be seen normally and indistinguishable from actual object. An easy hologram can be constructed by using a CD case or by a transparent sheet with some super glue and simple measurements.

MATERIAL REQUIRED

To make a hologram, we will need following material

- **Transparent Sheet**

A transparent sheet can be use to make a hologram or a transparent CD case can be used, as it is a little bit tricky and difficult to deal with CD case so transparent sheet will be a better choice. The geometry and transparency of the hologram enables us to observe the phenomenon of reflection, refraction, diffraction and interference of light.

- **Permanent Marker.**
- **Scotch Tape.**
- **Ruler.**
- **A Pair Of Scissors.**
- **Super Glue.**





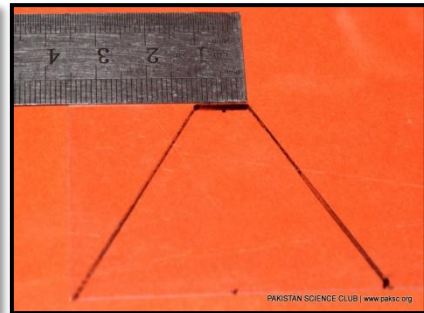
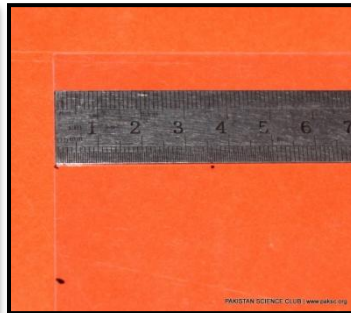
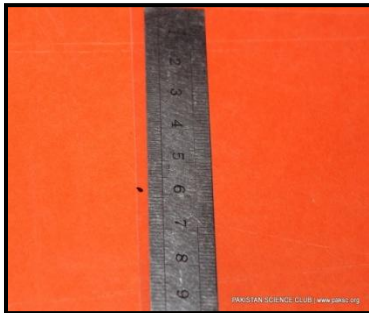
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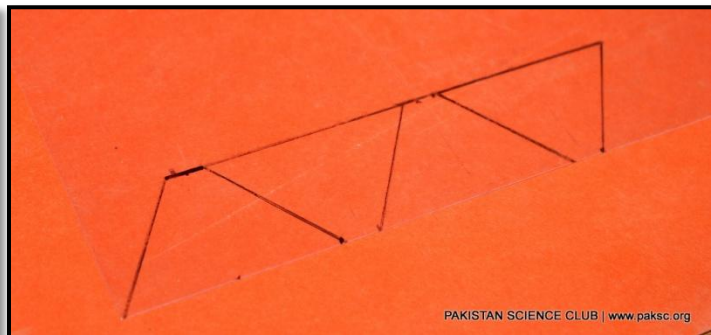
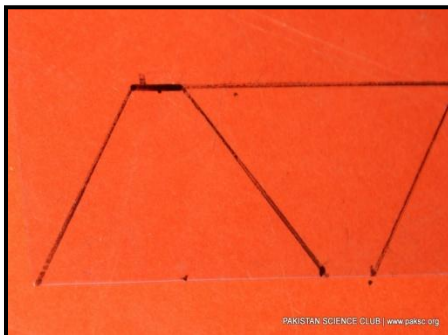
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STEPS OF CONSTRUCTION

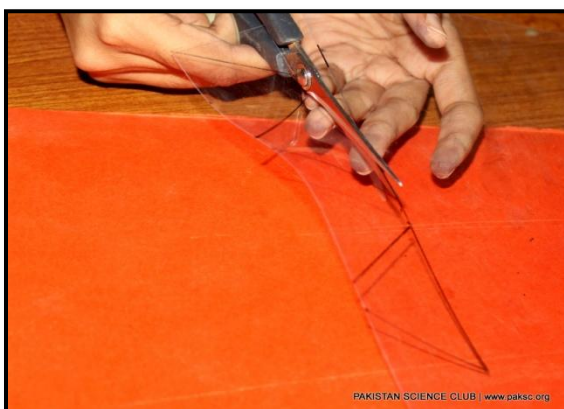
- Take a transparent sheet and draw a trapezium with permanent marker whose parallel sides are 1 cm and 6 cm respectively and height is 3.5 cm.



- Draw four trapeziums in the similar manner.



- Cut these trapeziums with scissors.



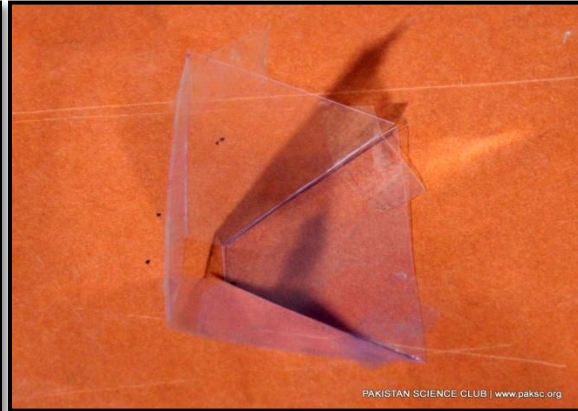


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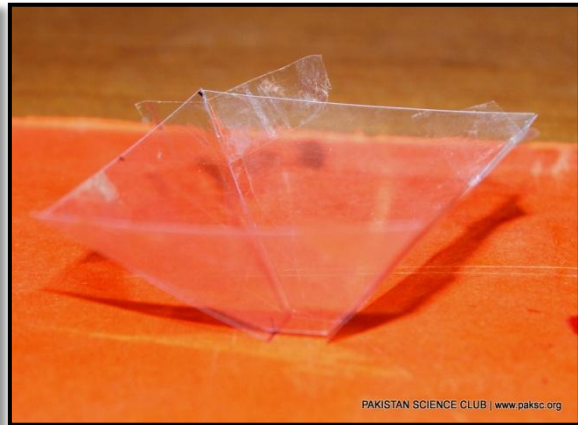
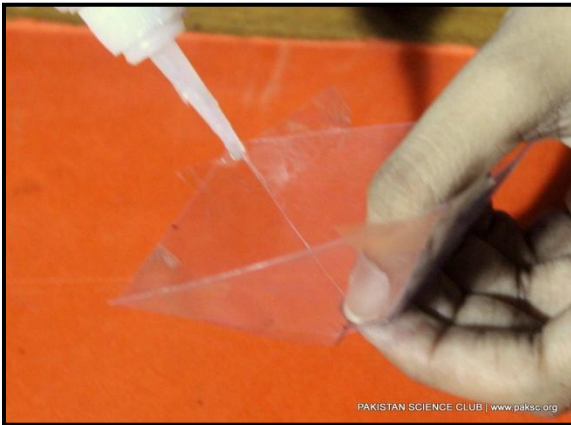
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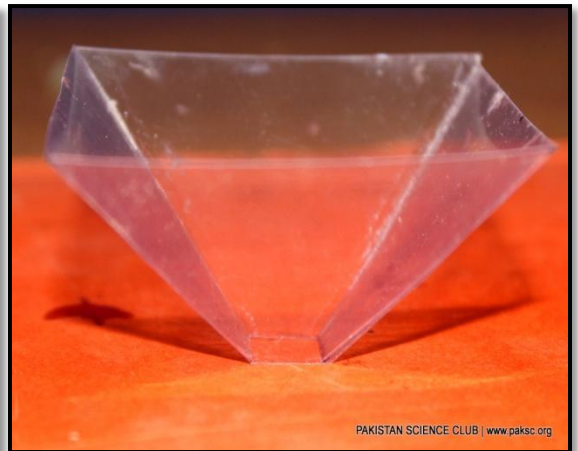
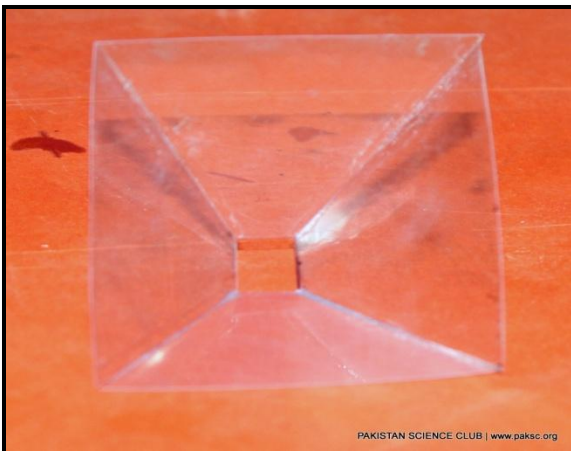
- Join them temporarily side by side with their non parallel sides with the help of scotch tape.



- Once completed, join them carefully with super glue.



- Remove scotch tape.





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- The hologram is ready, now put this on any holographic video in smart phone and enjoy 3-D image formation.

