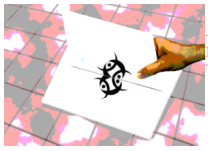
PROJECT WORK-3
REFLECTION OF LIGHT BY DIFFERENT SURFACES

Some items to be given as project work for class-10 students.
They can do any one of the following. The report should be in at least two A4 pages.

1. Collect information about the history of spherical mirrors in human civilization. Display it in your class room.
2. Think about the objects which act as a concave or convex mirrors in your surroundings. Make a table and display it in your class room.
3. How will our image be in concave and convex mirrors? Collect photographs and display in your class room.
4. Make a Pin hole camera. Observe the image size and clarity in it. What happened if the size of the hole increases? Which type of images can be seen , If we arrange two or many hole in that camera?
5.  Observe the given picture. What will you do to obtain that are figures shown in the following box?

Note: Use plane mirror to identify the line of reflection as shown in the following figure.



6. Draw the ray diagrams for the formation of images by a concave mirror when an object placed at the following places.
   (**a**) At infinite distance (**b**) beyond 'C' (**c**) at 'C' (**d**) between 'C' and 'F' (**e**) at 'F'
   (**f**) between 'F' and 'P'. Also interpret the size and properties of image.
7. Draw the ray diagrams for the formation of images by a convex mirror when an object placed at the following places.
   (**a**) At infinite distance (**b**) between infinity and Pole.
   Also interpret the size and properties of image.
8. Make a model of Solar cooker by using card board box, Aluminium foils and transparent sheets, steel box, black colour paint.
9. Collect photographs from your daily life where you use convex and concave mirrors and display in your class room.

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