Camera Obscura

Make a simple instrument that demonstrates optics

You will need....

- ✓ Convex lens (10 cm)
- ✓ Tubing
- ✓ Box
- √ Grease proof paper

Background:

The term "camera obscura"meaning dark room-was first used by the German astronomer Johannes Kepler in the early 17th century.

Follow these steps:

- 1. Construct the camera obscura by assembling the parts as shown.
- 2. The box has a hole cut into one end to fit the focussing tube; the other end of the box is open and the screen is inserted.
- 3. The inverted real image can be viewed on the screen.

What next?

1. Many people have speculated that Dutch artist Johannes Vermeer (1632-75) used a camera obscura to help him create his paintings e.g. The Music Lesson'. If so, he had to paint the pictures upside down.





