

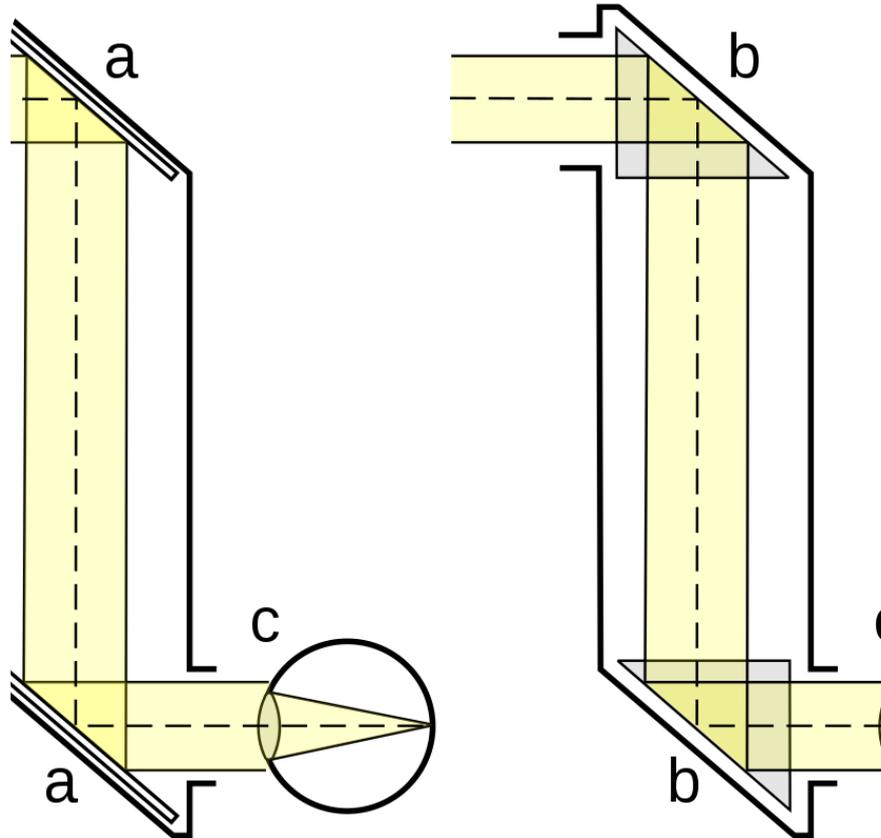
Periscope

make your own at home

A periscope lets you to look over at objects or people from a corner, or from a higher angle.



Periscopes are used in modern submarines and other high-tech vehicles. Using a more complicated system of prisms and lenses, the basic mirror periscope described below is easy to make at home. This periscope provides a clear enough image that was widely used for the military during the twentieth century.



You will need:

- a ruler
- hot glue gun
- scissors
- two small 6 inch mirrors
- one 6 inch by 6 inch square of cardboard
- 4 strips of cardboard that are 6 inches wide by 12 inches long.

Always be sure to have a parent's permission or assistance when using a hot glue gun or scissors.

Directions

1. You will then need to create a 45 degree angle at each end of one piece of cardboard. Lay one piece of cardboard flat on your work area.

2) On the right 6 inch side measure 1 centimeter from the edge and mark it, draw a line from one 12-inch side to the other 12 inch side leaving the centimeter of space between your line and the edge of the right hand side, and this will be line A.

3) Then measure 6 inches from line A across the top and make a small mark. Draw a line from the spot you marked to the bottom of line A, and this line will be line B leaving you with a 45 degree triangle.

) On the left hand side of your cardboard measure from the edge towards the right 1 centimetre and mark the spot, draw a line from one 12-inch side to the other 12- inch side leaving the centimeter of space between your line and the edge of the left hand side, and this will be line C. Measure from 6 inches across the bottom and mark the spot then from the spot draw a line from the spot to the top of line C, and this will be line D.

5) Use the hot glue gun to place a small line of glue on line B then place the edge of your mirror on the glue with the mirror side facing line D. The same will need to be done on line D with the mirror facing line B.

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