

Reflecting Light Through Periscopes

Periscopes allow a submarine to search visually for nearby targets and threats on the surface of the water and in the air, all while remaining hidden under the ocean's surface.

Make Your Own Periscope!

Assembly Instructions For the Periscope Template

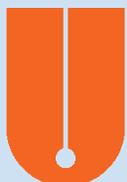
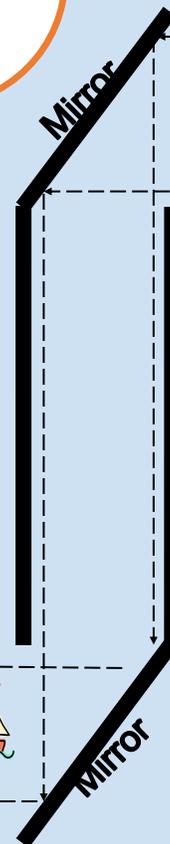
1. Print the Periscope Template on heavy paper or cardstock.
2. Use the hole puncher on the four large black dots on the periscope template.
3. Cut along the dotted lines starting from the holes punched in the template.
4. Fold along all of the long solid lines to create a rectangular tube.
5. Tape or glue the tube edges together.
6. Fold the each rectangular tab in and tuck under the half-circle tab.
7. Tape or glue a mirror or piece of foil to the slanted rectangular tabs at each end of your periscope.
8. Decorate your periscope!

Materials

- 1 Periscope Template
- Hole Puncher
- Scissors
- Tape
- Glue
- 2 small makeup mirrors or reflective foil

Did you Know?

In 1854, French scientist Hippolyte Marié-Davy invented the first naval periscope, consisting of a vertical tube with two small mirrors fixed at each end at 45°. Later, Thomas H. Doughty of the US Navy invented a new version using prisms for use in the American Civil War of 1861–1865.



GLUE/TAPE

FOLD IN ON THE SOLID LINE

CUT ON DOTTED LINE

GLUE/TAPE

GLUE/TAPE

GLUE/TAPE

GLUE/TAPE

GLUE/TAPE



UNITED STATES NAVAL
UNDERSEA
MUSEUM

FOLD IN ON THE SOLID LINE

CUT ON
DOTTED LINE

CUT ON
DOTTED LINE

FOLD IN ON THE SOLID LINE

Mirror



Mirror

CUT ON DOTTED LINE

FOLD IN ON THE SOLID LINE