



# How to make a Periscope

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Follow this step-by-step guide on how to make a periscope.

Associated resources:

Periscope lesson plan

Periscope PowerPoint

Periscope worksheet

Periscope worksheet – suggested answers

### **You will need:**

#### **Parts**

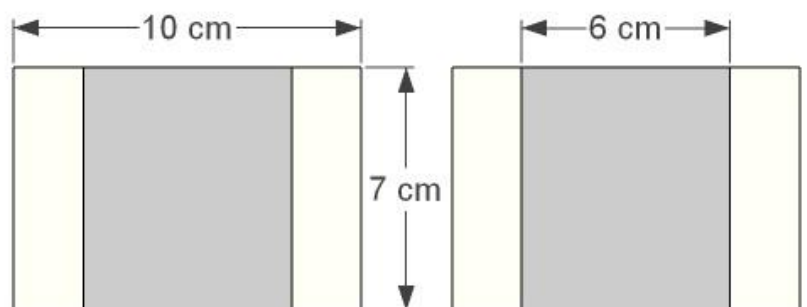
- Strip of mountboard (see lesson plan)
- Strip of mirror (see lesson plan)
- Periscope box template
- Foam leaves

#### **Tools and consumables**

- 30 cm ruler
- Marker pen
- Sticky tape
- Scissors
- Low melt glue gun
- Acrylic paint (optional)
- Other decorations (optional)

#### **Step 1**

Mark and cut out two rectangles of mountboard 7 cm x 10 cm. Mark and cut out two rectangles of mirror 7 cm x 6 cm. Peel off the backing and stick the mirrors to the mountboard as shown. Peel the plastic film off the front of the mirrors.



#### **Step 2**

Carefully cut the periscope box template along each of the solid lines. If you want to paint your template then do it now, and leave it to dry. Use the ruler and one blade of the scissors to score along the dashed lines. You want to score just deeply enough so that the box will fold neatly along the dashed lines.



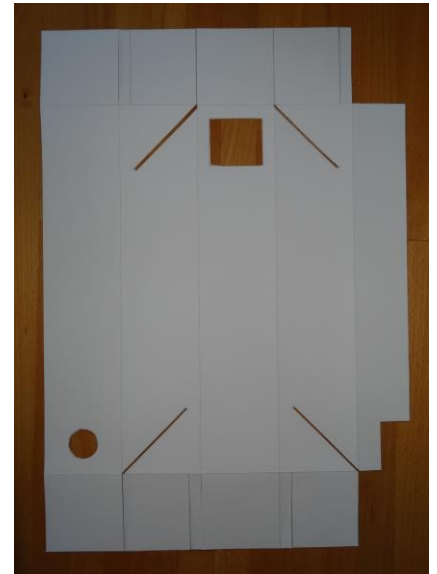
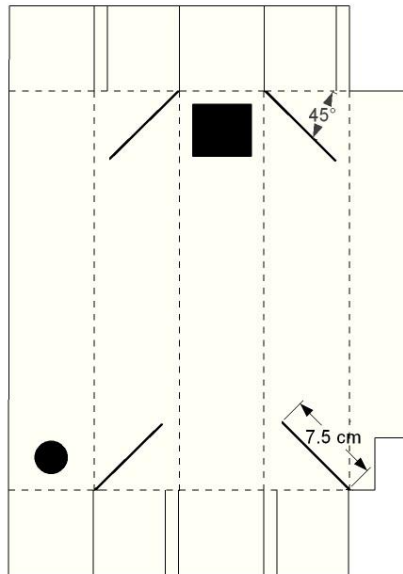
#### **Step 3**

Fold into a box shape with the score lines on the outside.



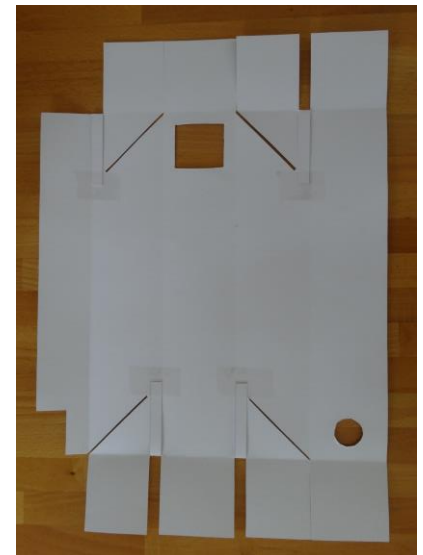
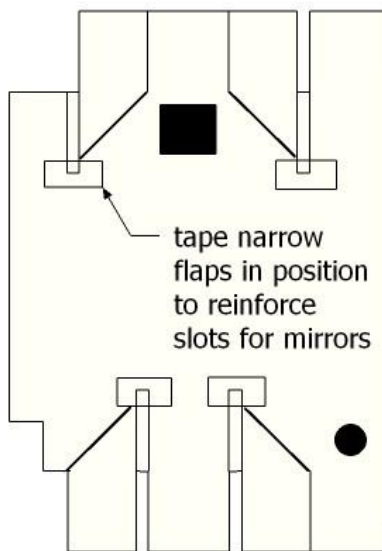
**Step 4**

Open the box out flat. Use the protractor and ruler to mark four lines 7.5 cm long at 45° as shown. Cut slots roughly 2 mm wide along these lines. These will be used to mount the mirrors.



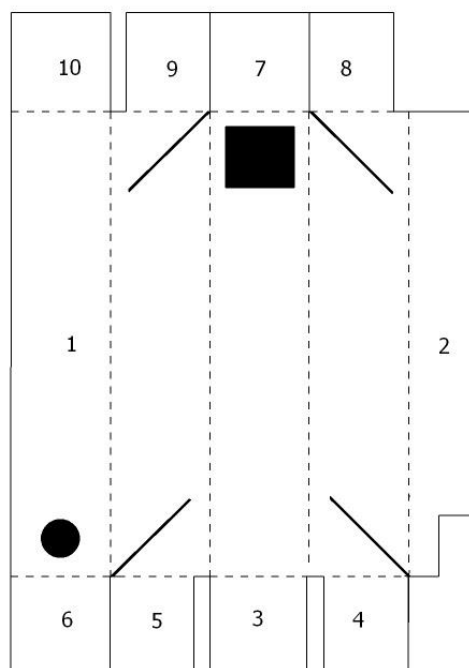
**Step 5**

**Turn the box over.** Fold down the four narrow flaps and tape in position. This is to reinforce the ends of the slots when the mirrors are fitted. Don't block the slots with tape.



**Step 6**

Fold the box up along the fold lines in the order shown. The dashed lines should be on the outside. Tape up all the seams with transparent sticky tape. Be careful not to block the slots with tape. (N.B. If you have painted the periscope you could glue up the seams instead; the sticky tape doesn't stick as well to paint.)



### Step 7

Slide the two mirror units into the slots. If the slots are too narrow then cut them a little wider. One mirror should be facing the rectangular hole, and the other mirror facing the round hole. Tape the ends of the mountboard to the box to hold the mirror units in place.



### Step 8

Decorate your periscope. You could glue on the foam leaves to camouflage it. You could also use other decorations such as felt tip pen, paint, left-over wrapping paper etc.



### Step 9

Try out your periscope!

