



Making a Periscope



Follow these instructions to make your own working periscope.

You will need:

A cereal box



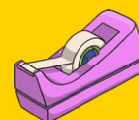
A pair of scissors



2 safety mirrors

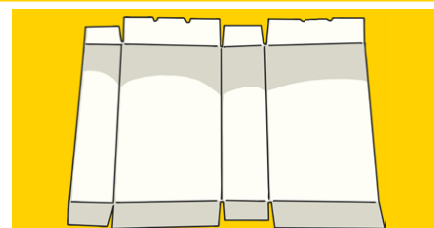


Sticky tape



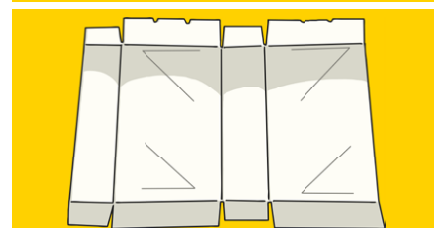
Step 1

Carefully open up your cereal box and lay it out flat.



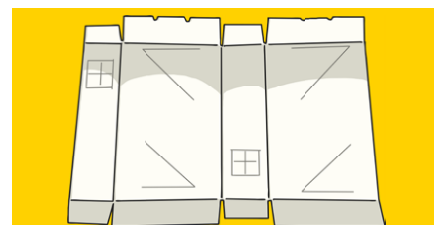
Step 2

Stick the 'mirror' templates in the centre of the wide panels of the cereal box.



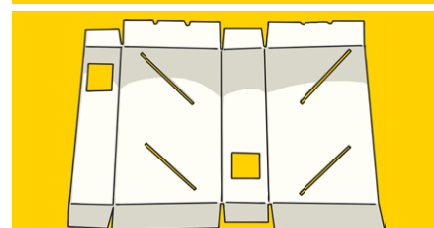
Step 3

Stick the 'window' templates in the centre of the narrow panels of the cereal box.



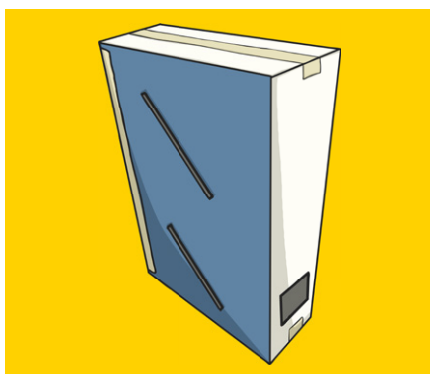
Step 4

Carefully cut along the lines for the mirrors, and cut out the windows.



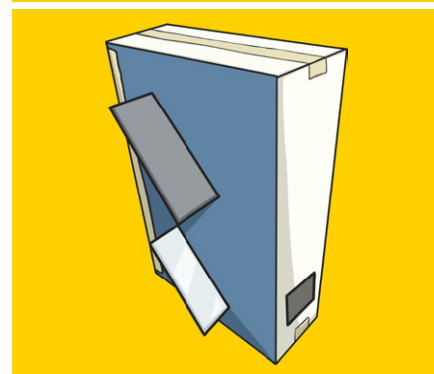
Step 5

Use sticky tape to stick the cereal box back together.



Step 6

Push the mirrors through the mirror lines you cut, and out the other side of the box so they are held firmly in place.



You should now be able to use your periscope to look around or over things!
Look through one viewing window to see an image from the other window.



Making a Periscope

How Does it Work?

The mirrors in the periscope reflect light to enable you to see an image of an object around a corner or over the top of another object. Explain how they do this by completing the sentences below.

Light from a light source _____ an object.

The light travels through the top window and hits the first _____.

The light _____ off this mirror down the _____, then hits the second mirror.

The light ray is _____ off this mirror, and travels out of the viewing window to my _____.

I can see an _____ of the object!

Use these words to fill the gaps.

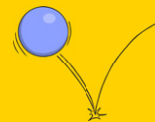
periscope



eyes



bounces



travel

reflected



image



mirror



hits

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A pair of scissors



2 safety mirrors

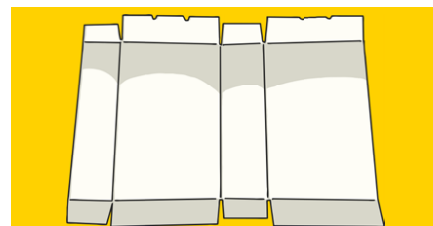


Sticky tape



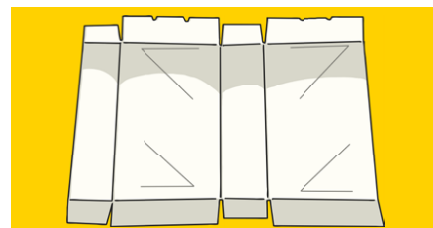
Step 1

Carefully open up your cereal box and lay it out flat.



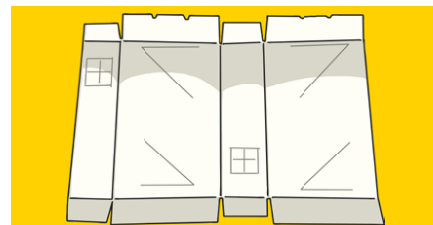
Step 2

Stick the 'mirror' templates in the centre of the wide panels of the cereal box.



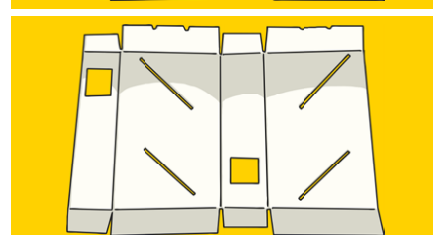
Step 3

Stick the 'window' templates in the centre of the narrow panels of the cereal box.



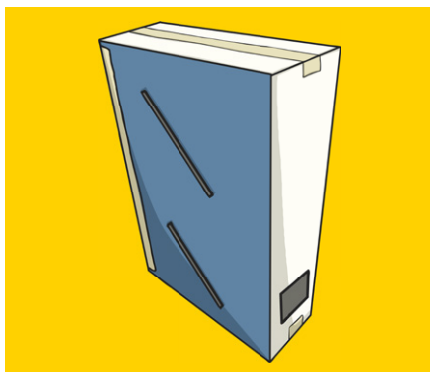
Step 4

Carefully cut along the lines for the mirrors, and cut out the windows.



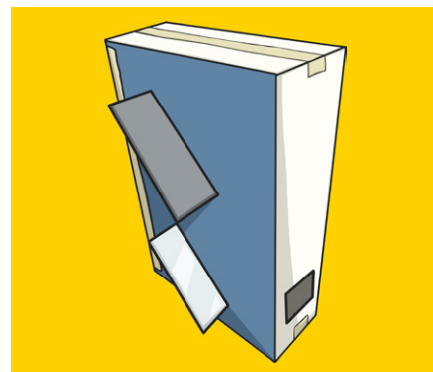
Step 5

Use sticky tape to stick the cereal box back together.



Step 6

Push the mirrors through the mirror lines you cut, and out the other side of the box so they are held firmly in place.



You should now be able to use your periscope to look around or over things!
Look through one viewing window to see an image from the other window.



Making a Periscope

How Does it Work?

The mirrors in the periscope reflect light to enable you to see an image of an object around a corner or over the top of another object. Explain how they do this by completing the sentences below.

Light from a light source _____
_____.

The light travels through the top window and _____

_____.

I can see an image of the object!



Making a Periscope



Can you make your own working periscope?

You will need:

A cereal box

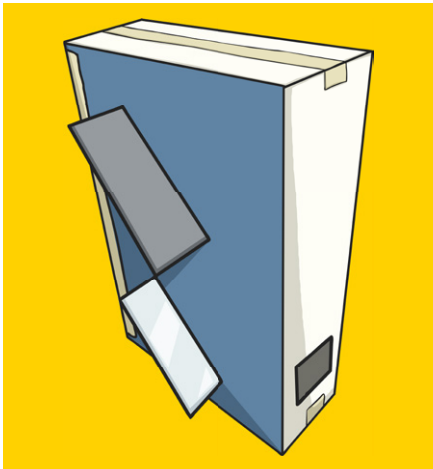
A pair of scissors

2 safety mirrors

Sticky tape

You will need to cut slits into your cereal box to position your mirrors accurately in order to reflect the light. You will also need to cut two windows into your cereal box - one to let the light in, which will then be reflected in the two mirrors, and one window to let the light out so you can see the image.

When you have finished, you should be able to use your periscope to look around or over things! Look through one viewing window to see an image from the other window.



How Does it Work?

The mirrors in the periscope reflect light to enable you to see an image of an object around a corner or over the top of another object. Can you explain how they do this?