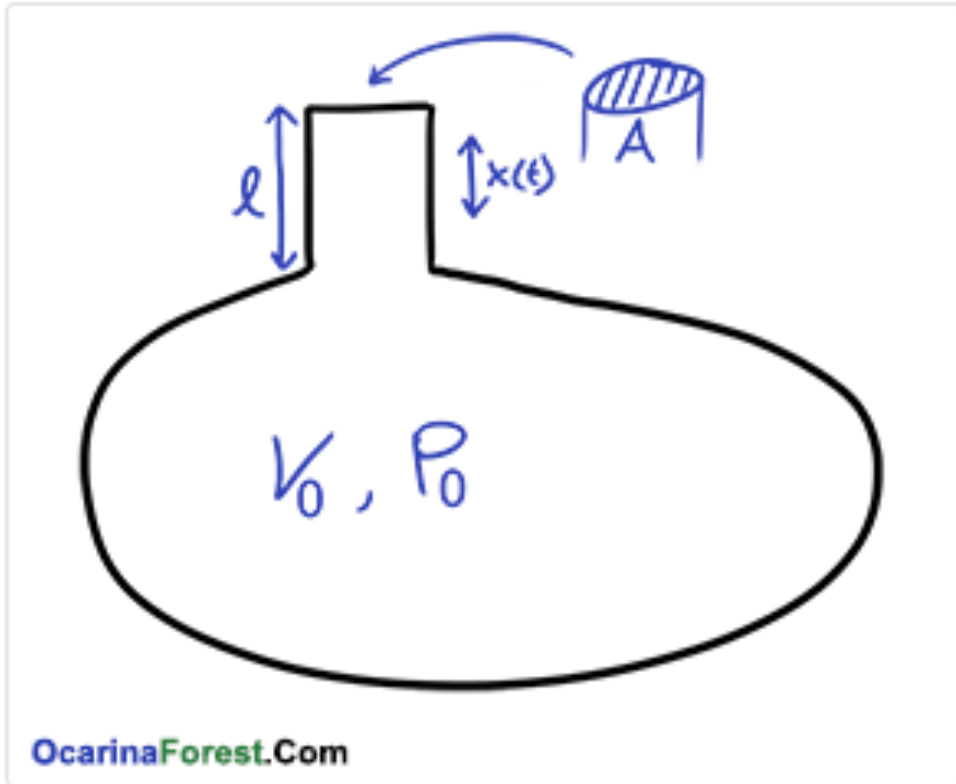


Icosahedral Ocarinas

The Ocarina Equation



$$\text{Frequency: } f = \frac{c}{2\pi} \sqrt{\frac{A}{Vl}}$$

c = speed of sound

A = area of mouth hole

V = volume of chamber

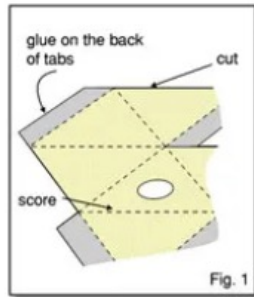
l = length of windway



Construction

To make the Ocarina you will need:

- a sheet of thin card
- a pair of scissors
- a craft knife
- glue
- a steel safety rule
- a cutting board



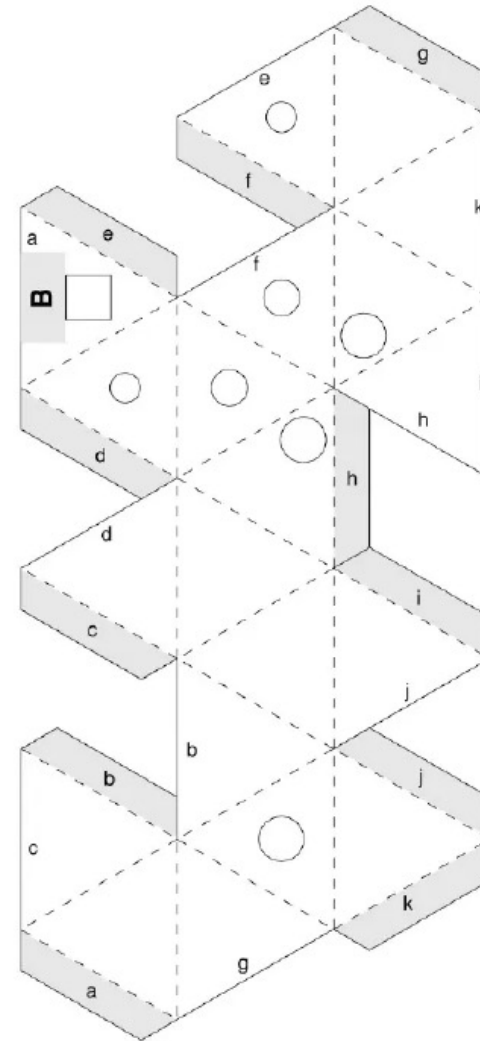
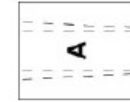
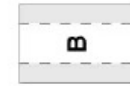
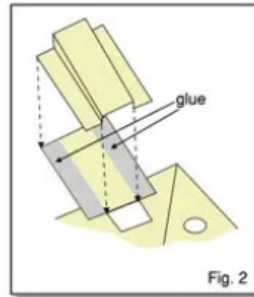
If you haven't already done so, go to the printing section and print out the net for the Ocarina. Make sure your printer will take thin card otherwise use paper and glue this to the card. Choose good quality card - between about 170gsm and 280gsm. Carefully cut out along all the solid lines and score along the dashed lines as show in fig. 1. Fold all the score lines very carefully so that the model folds up with the printing on the inside. Use glue or double sided tape to assemble the shape by matching the letters - it may help to position some flaps by poking a rod or a pencil through the finger holes.

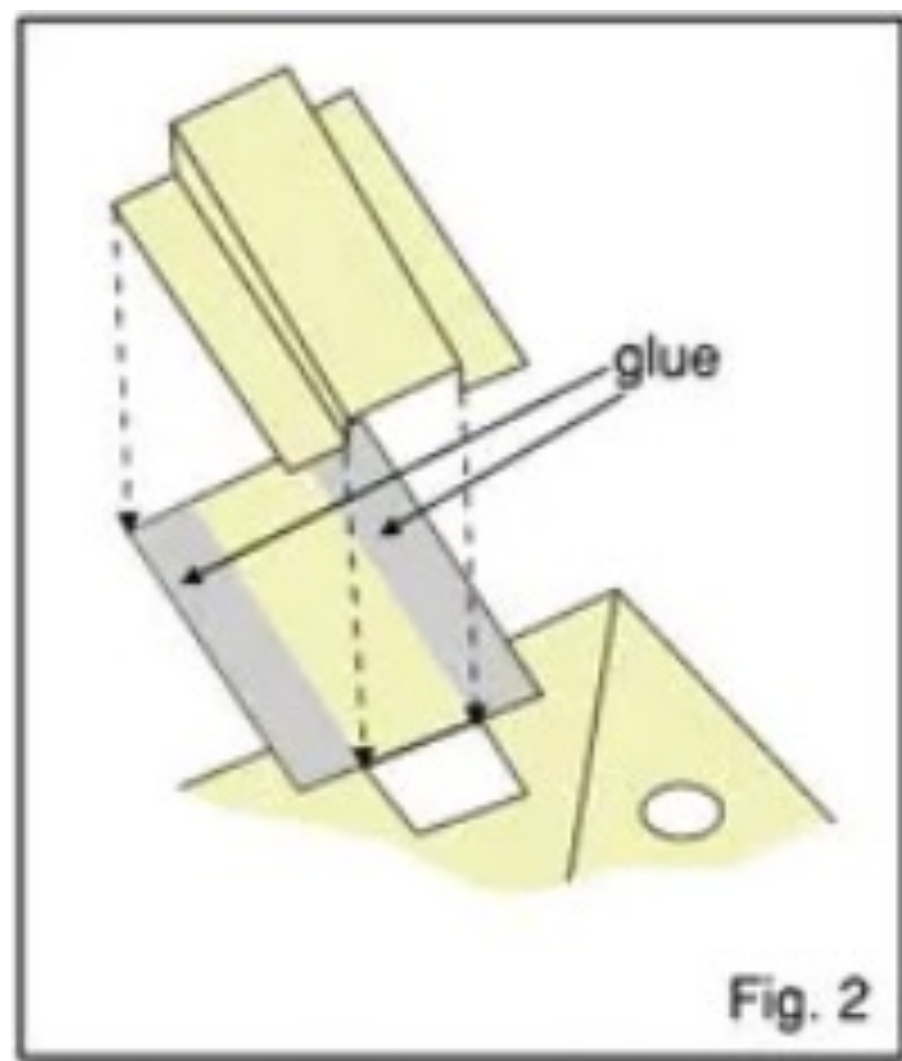
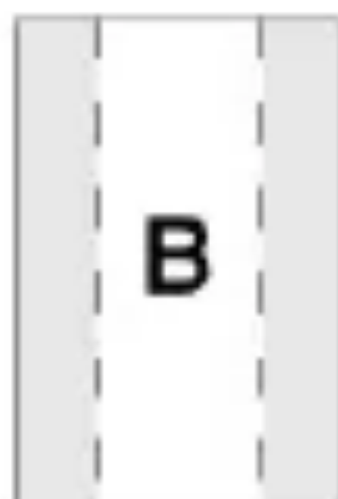
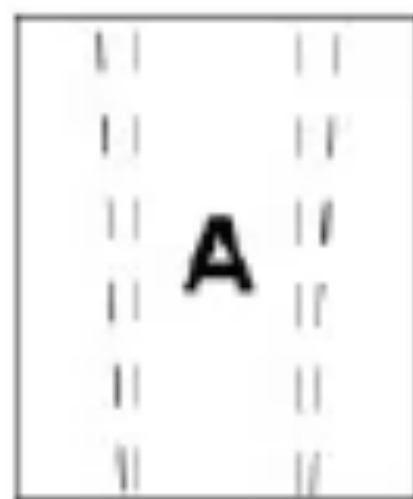
Assemble the mouth piece as shown in fig. 2. Make sure all seams are properly sealed. Leaky seams can cause the Ocarina to go out of tune. Card models will last longer if they are completely varnished.

Follow these links for more information on [cutting](#), [gluing and folding](#) card.

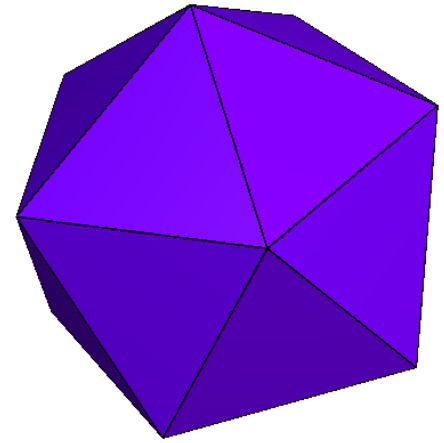
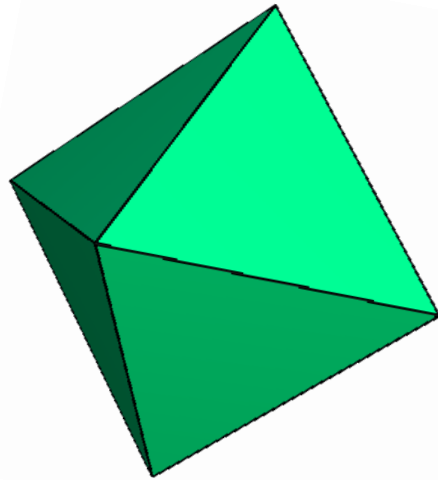
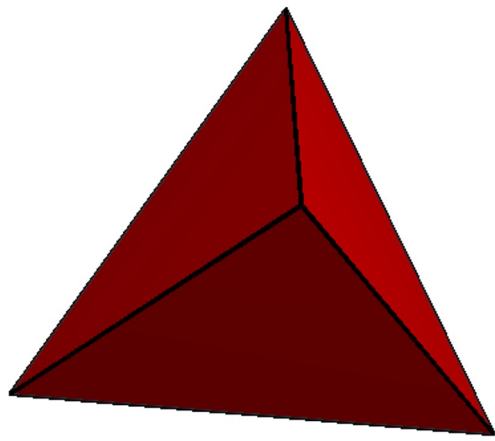
Once you have finished making the Ocarina click on 'Playing' to learn how to play it.

You can learn more about Ocarinas by visiting the 'Links' page





What's next...?



Pentatonic Platonics!

