

M. C. Escher Kaleidocycle

Print the pattern below on white card stock using a legal (121%) or greater enlargement. Color as desired. Score all broken lines with a blunt darning needle, then cut out the pattern along the solid lines. Fold **face-to-face** on all **vertical** scored lines, including those which adjoin tabs. Fold **back-to-back** on all **diagonal** scored lines. The folded pattern will begin to naturally curl into shape. Gently cup the pattern in your hands so that the bottom triangles come around to meet the blank triangular tabs at the top of the pattern. Glue the triangles to these tabs. Make sure that all seams are sealed. You now have a chain of six linked tetrahedra. Hold the chain of tetrahedra in both hands and bring its ends together to form a ring. The double tab on one end will be fitted inside the slot at the other end of this ring. Put glue on each of the outer sides of the double tab and slide it into the open slot at the other end of the ring. Turn the ring so that you can apply pressure with your finger to seal the seam. Let the seam set for several seconds, holding the model in position so that the seam does not separate. Now gently turn the model over and rotate it slightly to bring into view the seam on the opposite side. Match the design and seal this seam, again holding the model so that the seam does not separate. When these seams have "set", let the model dry thoroughly. When dry, it can be rotated in a continuous cycle of motion by pushing the points of the tetrahedra through the center hole. For a speedy assembly, use scotch tape to join all appropriate edges.

