

ESCHER TYPE

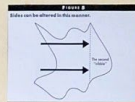
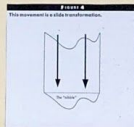
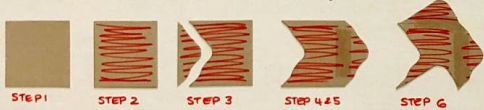
TESSELLATIONS

INSTRUCTIONS

CREATING A TESSELLATING TEMPLATE

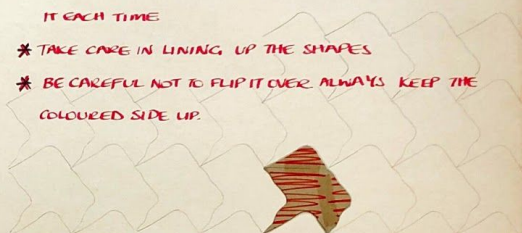
- 1 TAKE A SQUARE OF CARD 5cm x 5cm
- 2 COLOUR ONE SIDE
- 3 TAKE A 'NIBBLE' FROM ONE SIDE OF THE SQUARE (CUT FROM CORNER TO AN ADJACENT CORNER (FIG.3))
- 4 SLIDE THE 'NIBBLE' DIRECTLY ACROSS TO THE OTHER SIDE OF THE SQUARE (FIG.4)
- 5 TAPE THE 'NIBBLE' SECURELY TO THE OTHER SIDE
- 6 DO A SECOND 'NIBBLE' FOLLOWING STEPS 3-5 (FIG.5)

YOU NOW HAVE A TESSELLATING TEMPLATE (TEMPLATE TO TESSELLATE)



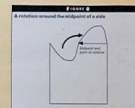
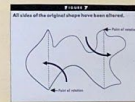
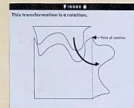
TESSELLATING WITH YOUR TEMPLATE

- * ON A SHEET OF PAPER, STARTING IN A CORNER, TRACE AROUND YOUR TEMPLATE
- * SLIDE YOUR TEMPLATE ALONG & DOWN, TRACING AROUND IT EACH TIME
- * TAKE CARE IN LINING UP THE SHAPES
- * BE CAREFUL NOT TO FLIP IT OVER ALWAYS KEEP THE COLOURED SIDE UP.



OTHER DESIGNS

- 1 ROTATION AT A CORNER (FIG.6 & 7)
- 2 ROTATION AT MIDPOINT: USE A RULER TO MARK MIDPOINT. TAKE 'NIBBLE' (FIG.8). REPEAT ON ALL FOUR SIDES.
- 3 COMBINATION: DO A MIDPOINT ON 2 OPPOSITE SIDES, DO A SLIDE (STEPS 3-5) FOR THE OTHER TWO SIDES. TRY USING AN EQUILATERAL TRIANGLE



KOWHAIWHAI

RAFTER PATTERNS

INSTRUCTIONS

- 1 CREATE A TEMPLATE ON CARD TO USE FOR YOUR KOWHAIWHAI. YOU SHOULD WORK IN PENCIL.

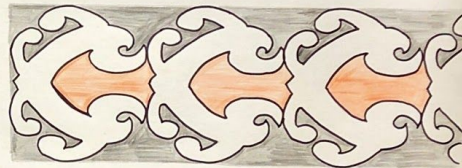
- a. START WITH A SIMPLE KORU.
- b. ADD ANOTHER TO THIS.
- c. RUB OUT THE CONNECTING LINE.

- d. REPEAT STEPS b & c UNTIL YOU HAVE CREATED THE TEMPLATE (PATTERN) YOU WISH TO USE FOR YOUR KOWHAIWHAI.

- e. CUT OUT YOUR PATTERN TO MAKE THE TEMPLATE.



- 2 USE YOUR TEMPLATE TO DRAW UP A KOWHAIWHAI PATTERN. USE VERTICAL &/OR HORIZONTAL REFLECTION OR HALF TURN ROTATION. COLOUR WHEN FINISHED.



- 3 ON YOUR KOWHAIWHAI IDENTIFY CLEARLY & LABEL ANY MIRROR LINES, CENTRES OF ROTATION & TRANSLATIONS