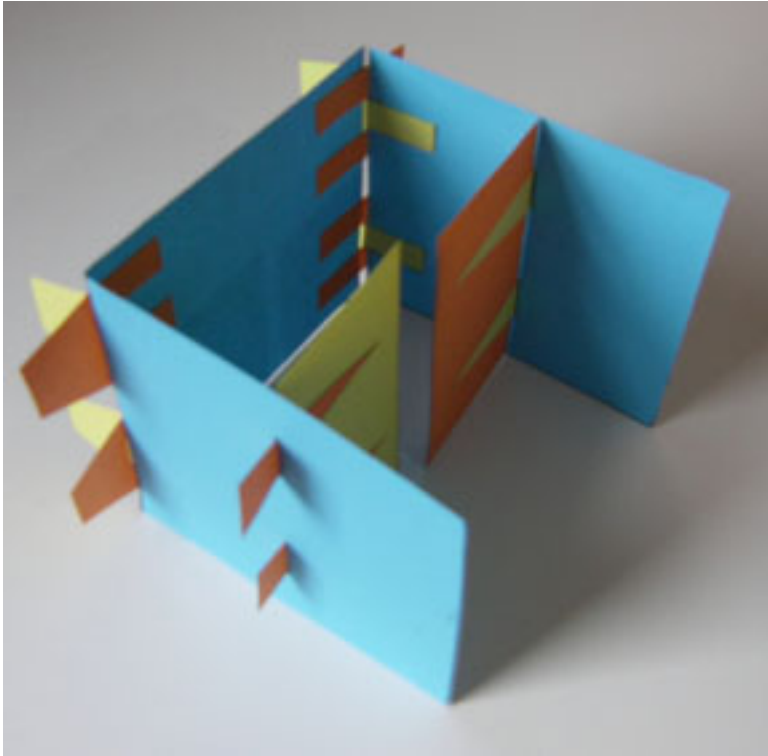


Paul Johnson Hinges and Dovetails

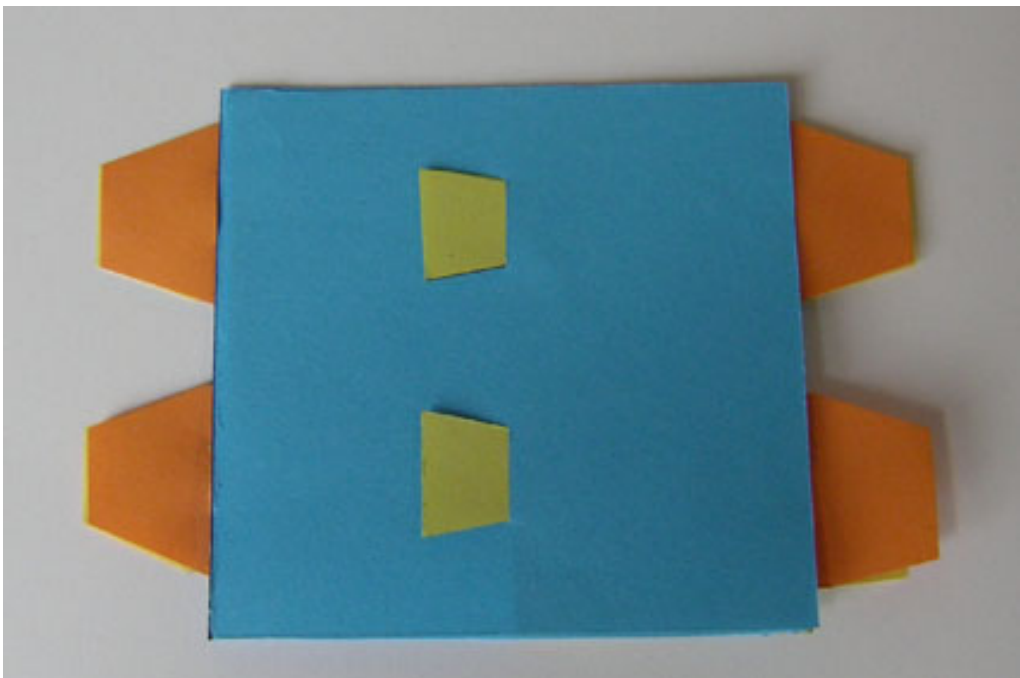
This is a way of joining paper to give a folded structure that doesn't put strain on the paper itself.

This pdf will give a structure that looks like this



The colours of the shapes may vary from image to image because they are taken from different mock-ups.

Sorry about the fuzzy photos but I think you can still see the detail.



1) Print out the template (at the end of the pdf)

Or if you want to draw your own use it as a guide and use the following measurements.

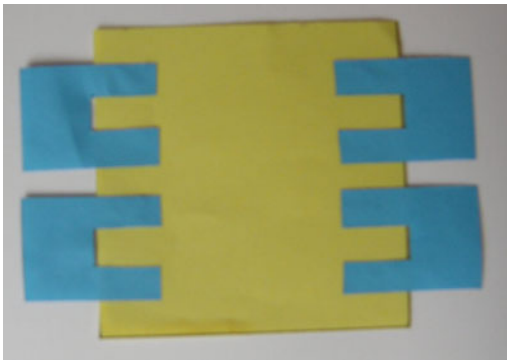
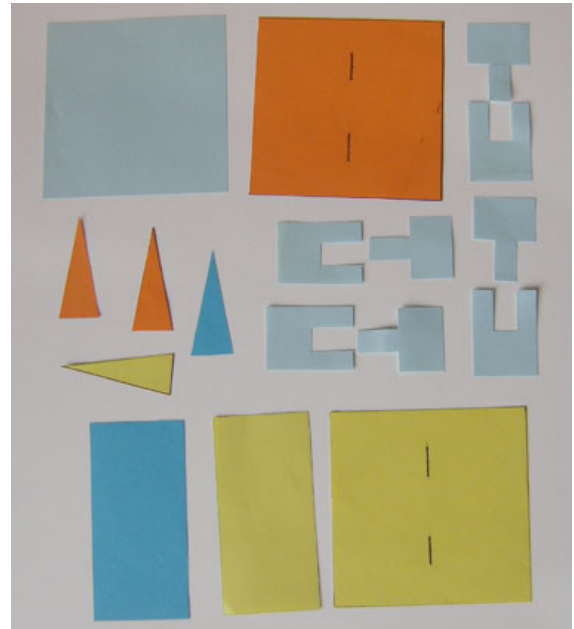
The 3 squares are 9cm,

the 2 rectangles 9 x 4.5cm,

the hinge rectangle 6 x 3 cm,

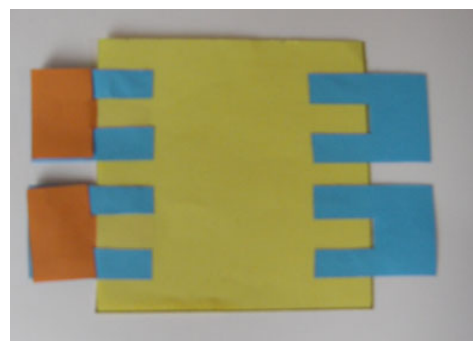
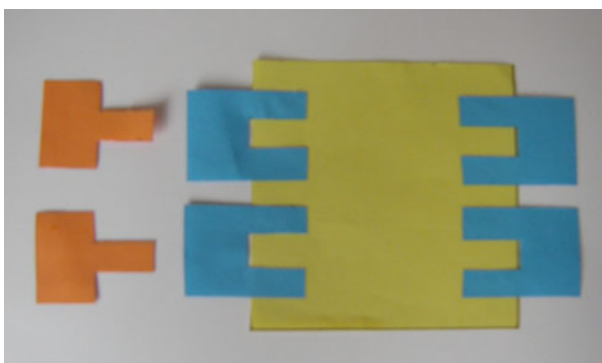
and the triangles 2 x 5

2) Cut out the pieces and cut slots at the marked place on two of the squares

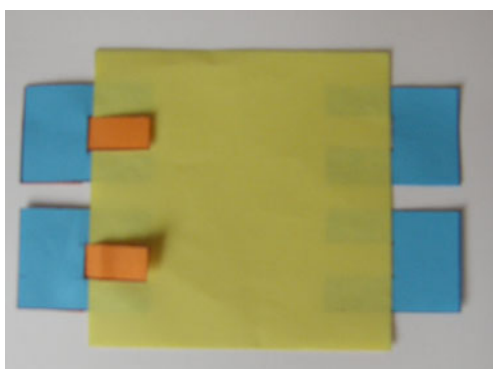


3) Glue the legs of the U hinge pieces onto the plain square leaving a slight gap at the base of the U shape

4) Slot the T pieces into the hinges.

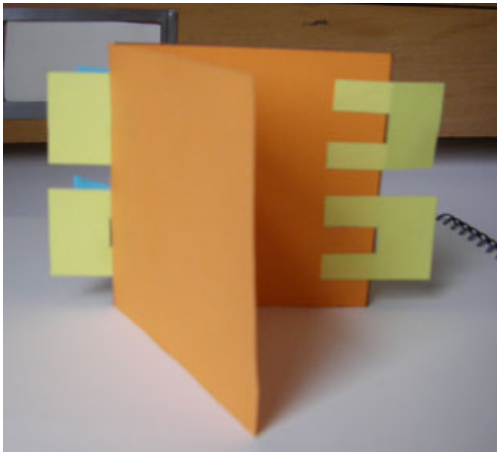
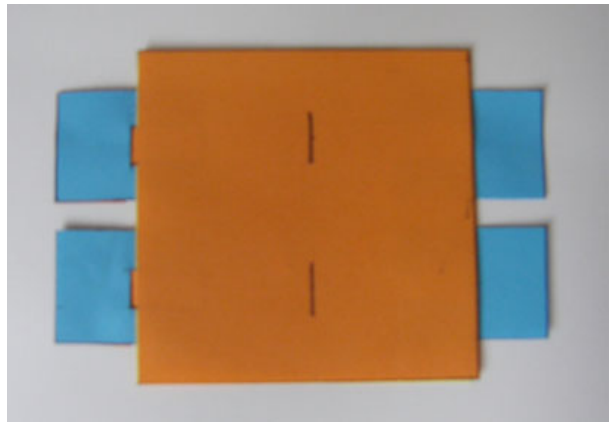


5) Turn the book over



6) Put glue onto the leg of the T (the orange bit that is facing you) .

7) Place one of the slotted squares on top



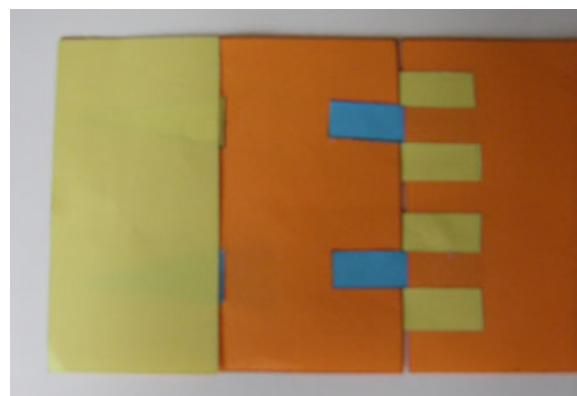
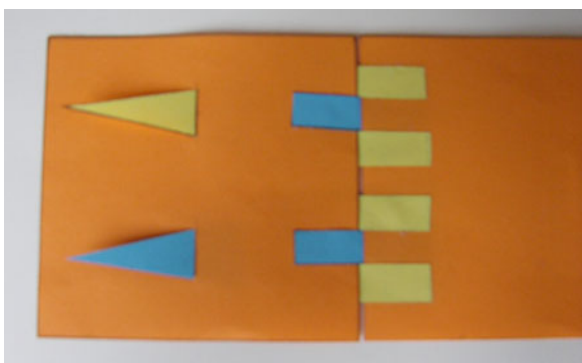
8) It should now open like this

9) Repeat for the other set of hinges

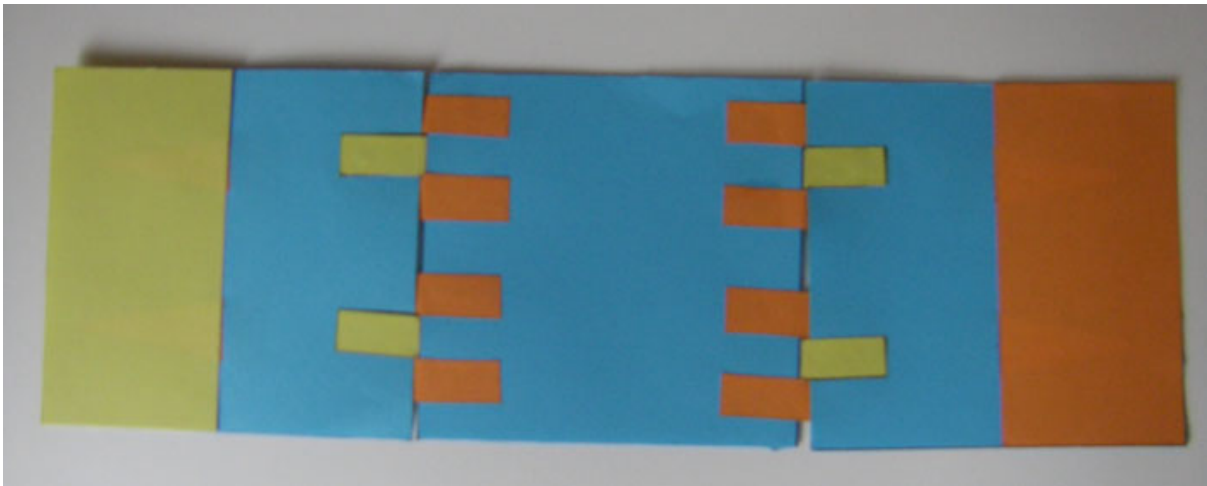
10) Slot a triangle into each slot on one of the side pages



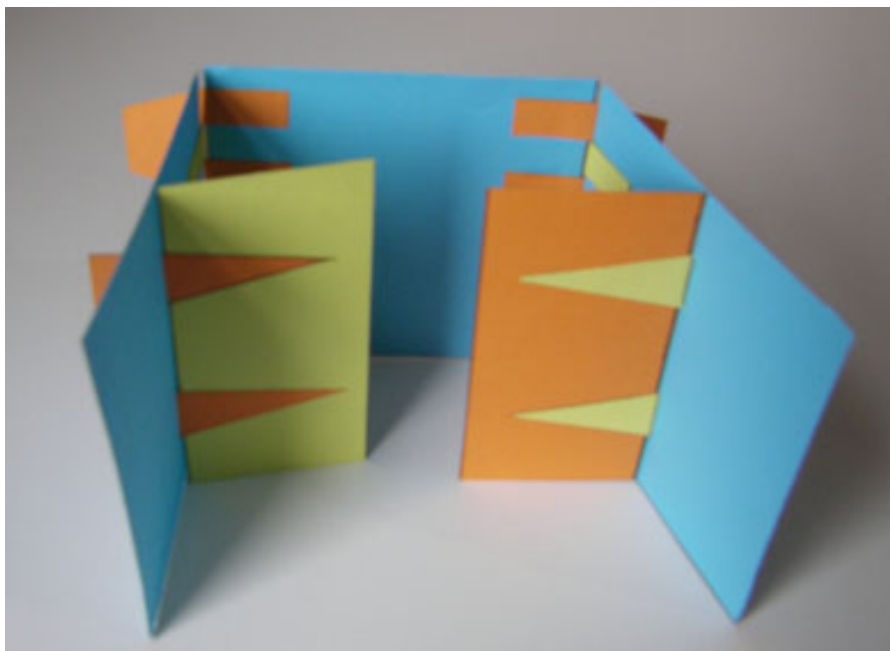
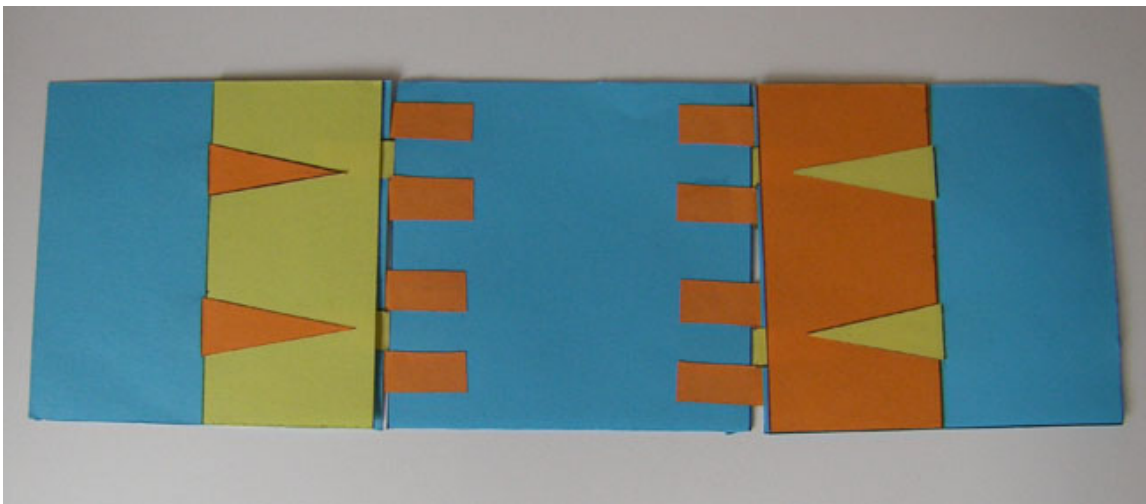
11) Open the book, put glue on the triangle tabs that are visible and then place on the rectangle

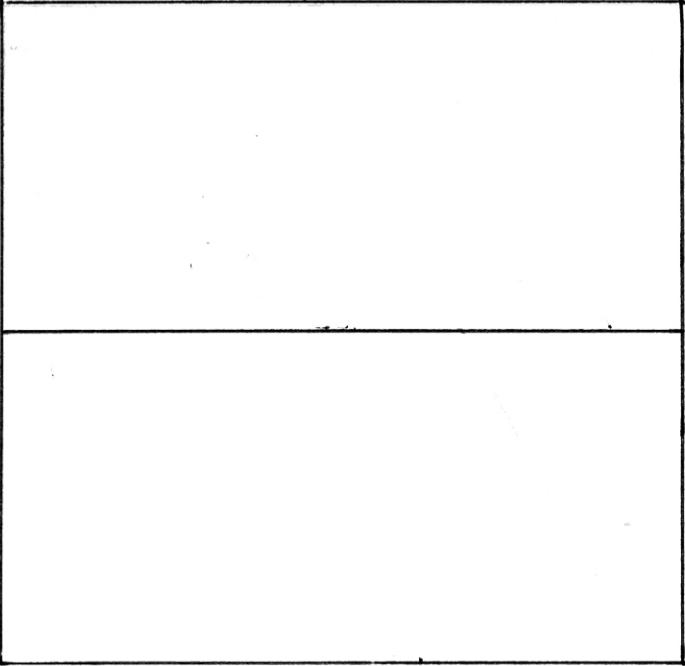


12) Repeat for the other set of slots



13) when the rectangle pages are opened it will look like this

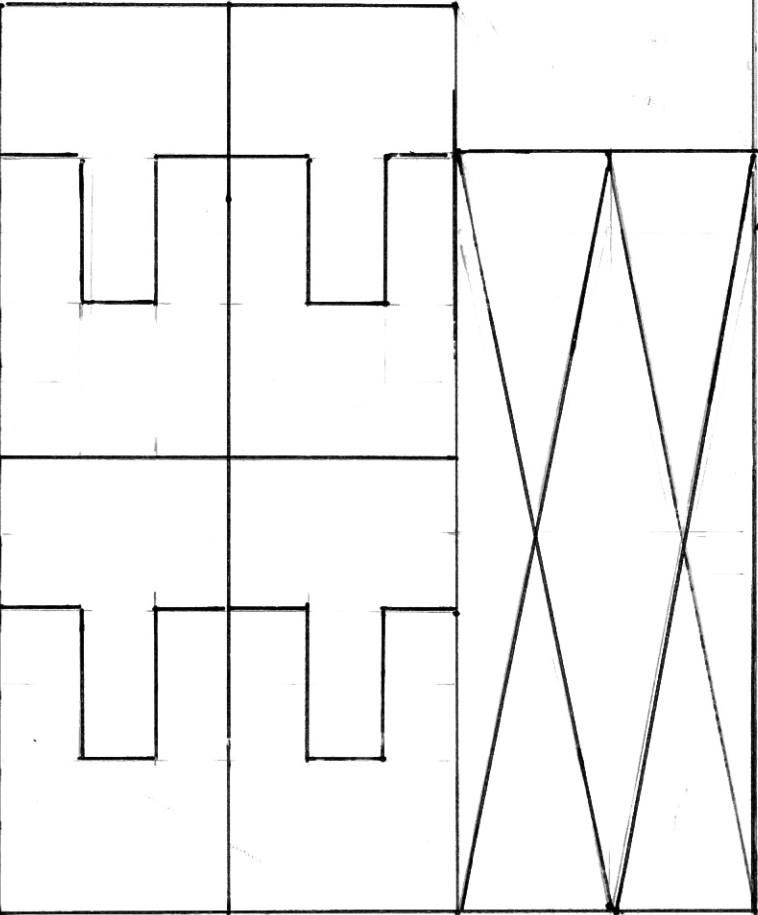




cut all the black lines (there are no folds in this structure)

template is based on nine inch square but the 2 small pages are adjusted slightly for easing the fit

it can be useful to keep the pairs of hinge shapes together



you need the four isoceles triangles

