Triangle Flexicube
by Dave Brill © 2015

A development of the classic Flexicube, using triangular units instead of cubes. Several orientations of the units are possible, giving surprising flexing sequences.

1. Divide a 20cm square into thirds

2.

3. Make horizontal mountain folds noting the reference points

4. Precrease, then cut into 3. The grey area will be used for the hinges

5.

6.

7.

8.

9. 2x1

10. square

11. Cut as shown to make 2 hinge types.
8 triangular units like this are required

Tuck inside to complete the unit.

8 hinges are required, but the number of A and B units depends on the orientation of the triangular units.

Precrease hinge A

Precrease hinge B

This shows one position for hinge B; “b” shows alternative positions.
Ideas for the orientation of the triangular units

Classic flexicube hinge positions

Two other orientations for the units

Triangle unit shows the five edges which will accept hinges

Triangle flexicube maintaining the classic flexicube hinge positions.