

Waterbomb Corrugation



Square or rectangle
with one edge at least 15 cm

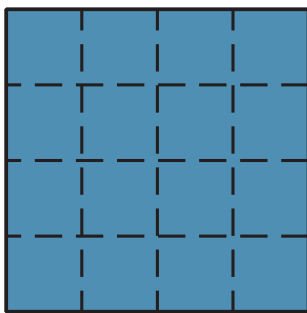


This waterbomb corrugation was pioneered by the late Shuzo Fujimoto. It makes a curiously flexible and organic form. The technique can be applied to any rectangle, and the number of corrugations can be increased or decreased.

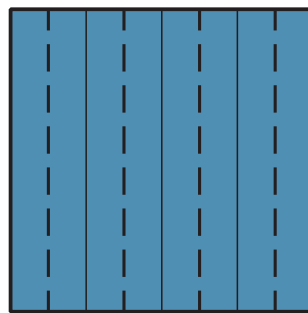
For your first attempt, use a 15 cm square. Observe the pattern of creases in step 6: each row of Xs is shifted horizontally by half a square. Remember to fold sharp accurate creases and take care to avoid unnecessary creases. You may find folding an oblong instead of a square helpful if horizontal and vertical are confusing.

When folding a large number of corrugations, fold several diagonals at a time in steps 4 and 5: fold the diagonal of the bottom square, skip a square, then fold the next diagonal, and so on.

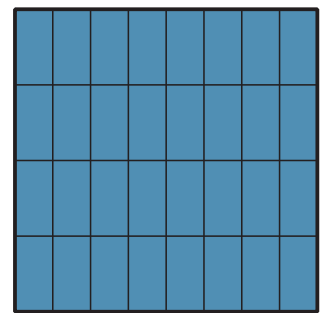
Precreasing ★★★



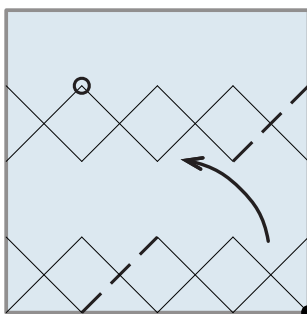
1 Fold and unfold into quarters.



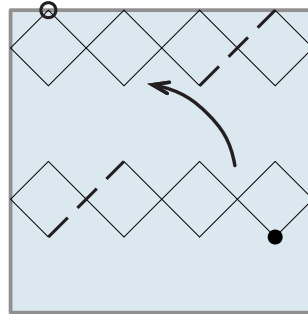
2 Crease into eighths.



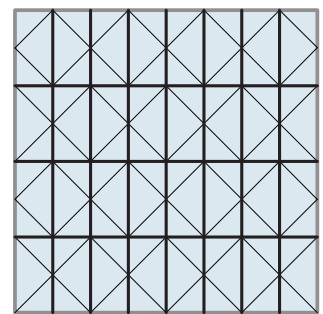
3 Turn over.



4 Fold the diagonals of each square in the bottom row to make a series of Xs. Repeat further up the square, skipping one row of squares.



5 Fold a similar set of Xs but offset horizontally by half a square.

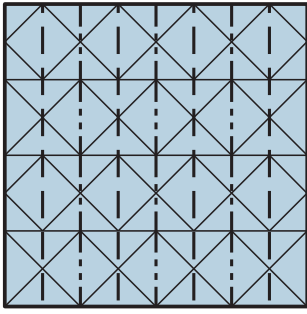


6 Precreasing complete.

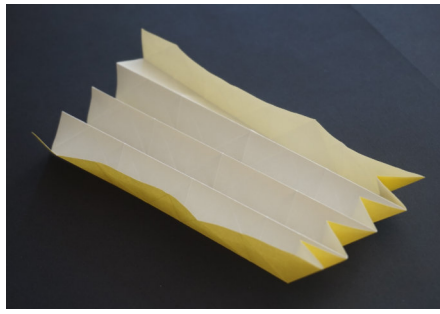
—— Valley fold

—— Mountain fold

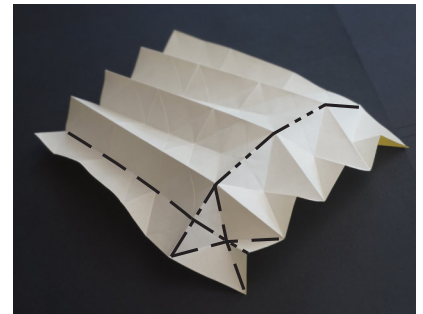
Forming ★★★★★



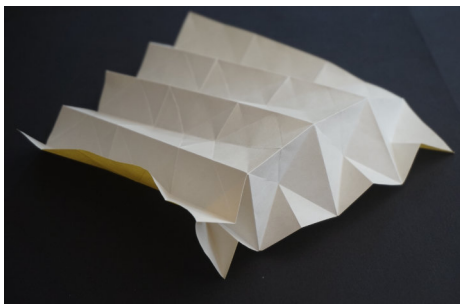
1 Pleat into eighths.



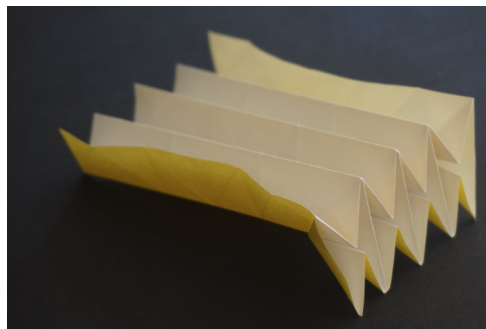
2 Inside reverse fold the corners of the first row.



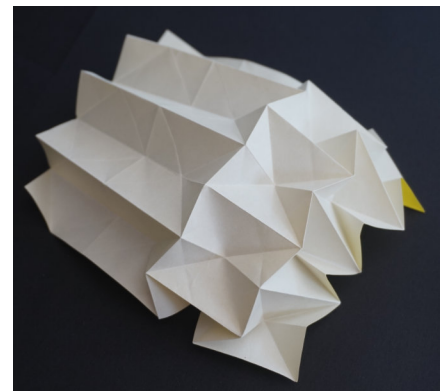
3 Stretch the paper and mountain fold the crease at the top of the first row.



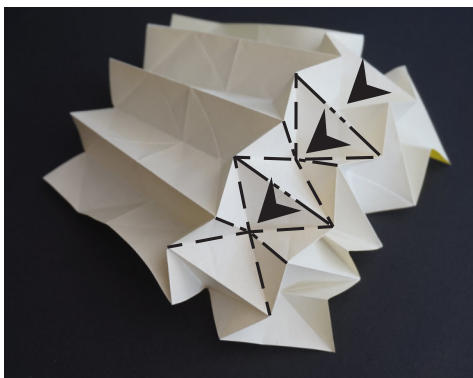
4 Form the waterbomb shape and collapse the first column.



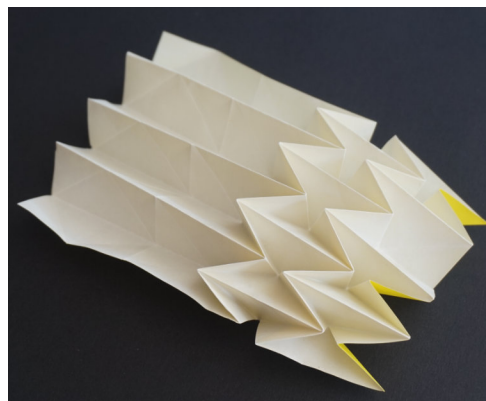
5 Repeat on the other columns.



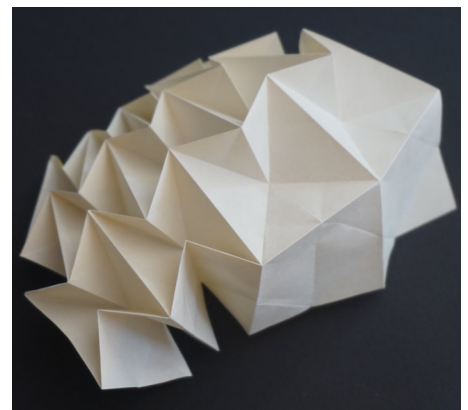
6 Stretch the paper and mountain fold the crease at the top of the second row.



7 This is not easy: reform the pleats above the second row but also form half waterbomb creases. In the second row, push down on the centres of the squares and encourage the waterbomb bases to collapse.



8 Second row completed. Repeat steps 3 to 7 until you have reached the top row.



9 For a 4 by 4 square version, rotate the model by a half turn and perform steps 3 to 5. Finish off with reverse folds like step 2.