

Sierpinski Xmas card



Create a postcard for your American mates.

The goal / the aim / the objective of this workshop is to repeat the three steps.

As it deals with fractals, we double the number of operations at each repetition of the 3 steps, this process is called autosimilarity.

Material / Tools

2 sheets of paper

Scissors

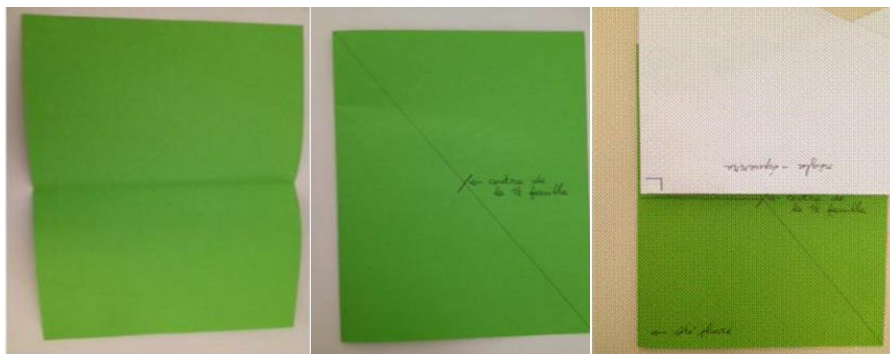
1 pencil

1 square + 1 ruler

1 stick of glue

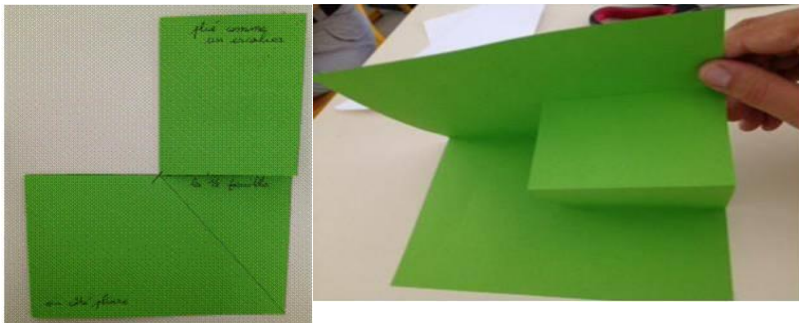
Step 1 :

Take the sheet of paper vertically. Find the middle of the length of the rectangle and fold the paper vertically. Mark the center of this sheet, you may use a diagonal.



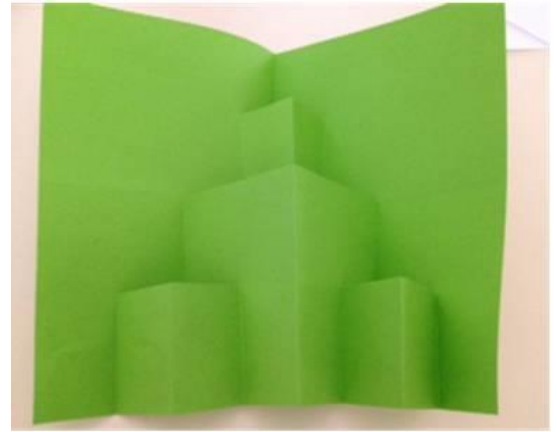
Step 2 :

Cut half of the segment and fold the central part of the paper like shown in the picture below.



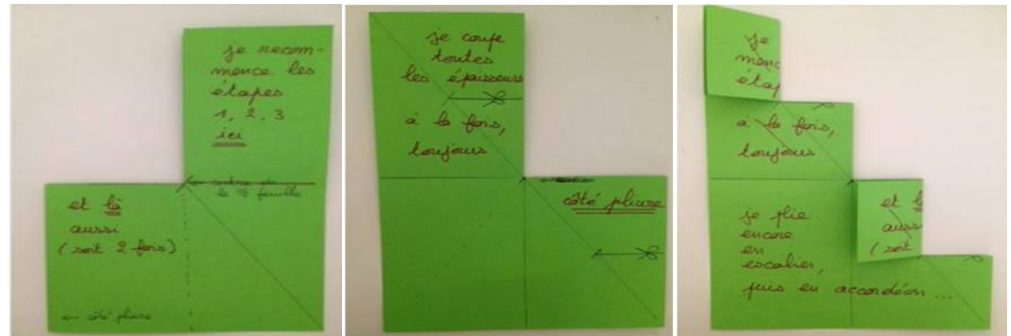
Step 3 :

Fold in stairs, then in accordian.
Fold back one of the cut parts. You get a stairs.
Open and fold changing the sense of the folds.



THEN :

Repeat the first step and pay attention, there will be two times more rectangle than at the previous step.



AT THE END :

Fold the other paper and stick the fractal inside. You get a wonderful postcard !!

If we stop at the step 3 :



Or at the step



4 :

