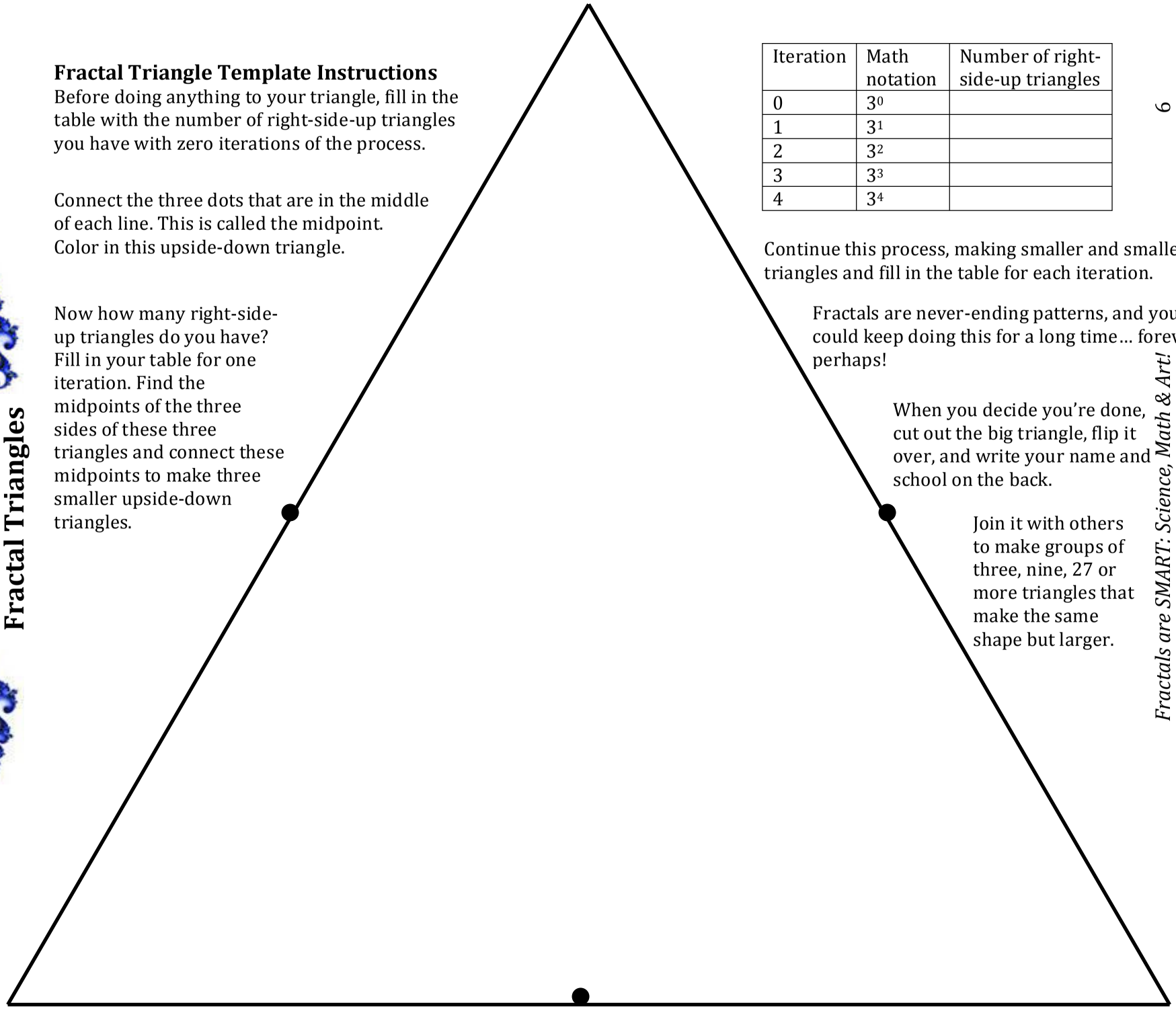
Fractal Triangle Template Instructions

Before doing anything to your triangle, fill in the table with the number of right-side-up triangles you have with zero iterations of the process.

Connect the three dots that are in the middle of each line. This is called the midpoint. Color in this upside-down triangle.

Now how many right-side-up triangles do you have? Fill in your table for one iteration. Find the midpoints of the three sides of these three triangles and connect these midpoints to make three smaller upside-down triangles.



Iteration	Math notation	Number of right-side-up triangles
0	3^0	
1	3^1	
2	3^2	
3	3^3	
4	3^4	

Continue this process, making smaller and smaller triangles and fill in the table for each iteration.

Fractals are never-ending patterns, and you could keep doing this for a long time… forever, perhaps!

When you decide you're done, cut out the big triangle, flip it over, and write your name and school on the back.

Join it with others to make groups of three, nine, 27 or more triangles that make the same shape but larger.