



Fractals for kids

Name of the object and creator	Fractals for kids Lidija Klobučar, computer science teacher at Lovre pl. Matačića Elementary school				
Recommended ages	10-11				
ages					
Thematic areas	Sciences	Technology	Engineering	Arts	Mathematics
combined (STEAM)	Ø			Ø	Ø
Materials needed	 paper a ruler pencil wooden crayons divider 				
	1. Drawing triangles and half sides of triangles				
Outline of the	2. Repeating the drawing steps on smaller parts				
steps					
References	https://www.youtube.com/watch?v=rGwwydEWLiI				



STEP BY STEP: How to build a fractal

Step 1: Drawin the 1st triangle

Estimated time: 1 min

Draw an equilateral triangle.

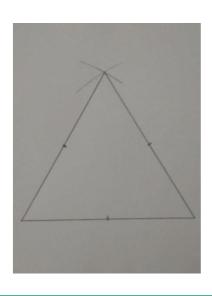


Step 2: Measure halfs

Estimated time: 2 min

Draw the halves of each side of the triangle.





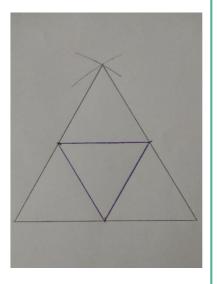
Step 3: 2nd triangle

Estimated time: 1 min





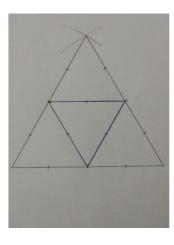
Connect the drawn halves of each side of the triangle into a new tringle.



Step 4: Measurement of halfs 2nd triangle

Estimated time: 2 min

In the resulting triangles, divide all sides in half.

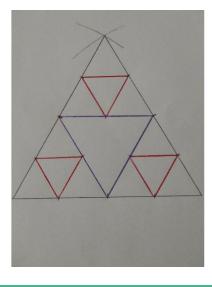




Step 5: 3 new triangles

Estimated time: 5 min

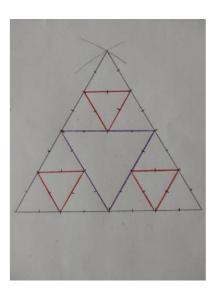
Connect all drawn halves of all triangles into new triangles.



Step 6: More triangles

Estimated time: 5 min

In the resulting triangles, divide all sides in half.



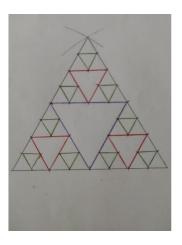
Step 7: Many triangles and more...

Estimated time: 10 min



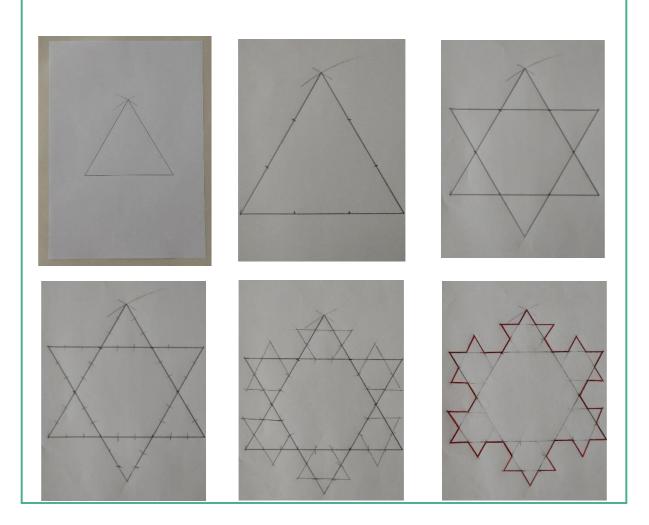


Connect all drawn halves of all triangles into new triangles.



Step 8: Make a Koch snowflake Estimated time: 30 min

Task: Koch snowflake





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