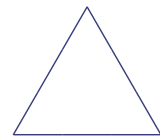


Make a Koch Snowflake!

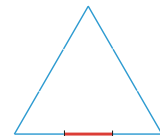
• Secondary School December Activity •

The Koch (rhymes with "Coke") Snowflake is a special repeating pattern discovered by the Swedish mathematician Helge von Koch. You begin with an equilateral triangle, and by adding smaller and smaller equilateral triangles you end up with a beautiful snowflake. Follow the instructions below to make one!

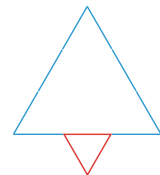
Step 1: Begin by drawing a large equilateral triangle on the attached graph paper.



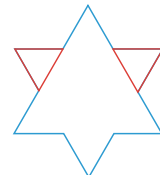
Step 2: Using the lines on the graph paper, divide one of the sides into three equal parts. Use your pencil to mark the beginning and end of the middle part (as shown).



Step 3: From the middle part you just marked, draw a new equilateral triangle with the middle part as its base. (See diagram.)



Step 4: Repeat steps 2-3 on the other two sides of the large triangle.



Step 5: Repeat steps 2-3 on every side of the new shape, as shown on the diagrams to the right.

When you're done, rub out the pencil marks on the inside so it looks like the snowflake drawn below.

