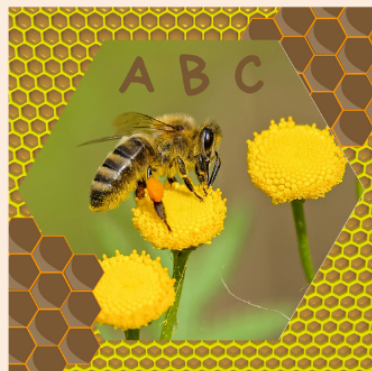




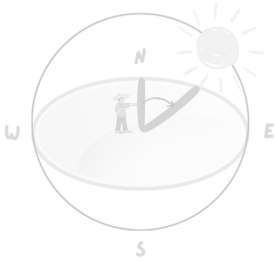
Instructions for the ABC stickers:

The stickers will fit AVERY Labels - code 936074, 99.1mm x 67.7mm Just load the paper into your printer and choose to print only page 2 of this document. You will be able to print 8 stickers per sheet. Each letter will fill the next sticker block so save your sheet for the next letter. Alternatively, you can print on normal paper, cut the sticker out and glue into your math journal.

I hope you enjoy using these resources with your family. I am happy for you to share these pages with others but please respect the creative copywrite and link back to jo.mathinnature.



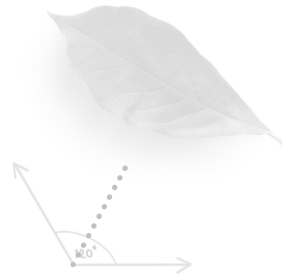
Azimuth



The Azimuth angle is the horizontal angle measured clockwise from North.

Bisect

Like the mid vein of a leaf



To bisect is to divide into two equal parts. The line which divides is called the bisector.

Converge



THESE LINES LOOK LIKE THEY APPROACH EACH OTHER BUT THEY ACTUALLY NEVER MEET.

Approach toward a definite value or point.

Depth



THESE POSTS HAVE MARKS WHICH SHOW THE DEPTH OF THE WATER.

The distance from top to bottom.

Equilateral Triangle

A triangle with 3 sides of equal length. The angles inside the triangle are all 60°



Fractals



Have a repeating pattern that we see again and again when we zoom in.

FRACTALS

LET'S LEARN MORE

A Fractal is a never ending, repeating pattern. It is self-similar over different scales. Which just means that as you zoom in you will continue to see the same pattern just smaller and smaller. Or, visa versa, if you zoom out, the pattern will continue to grow in the same way.

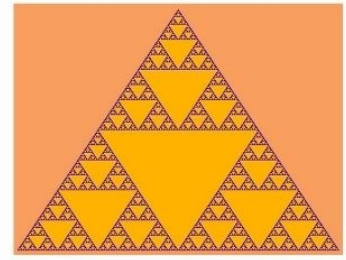
Fractals are beautiful and can be found in nature. Look closely at broccoli, (especially Romanesco), fern leaves, rivers and trees.



There are other places in nature where you will see fractal patterns. Can you think of any?
Why don't you grow a broccoli, or plant a fern at home so you can see these beautiful patterns up close?

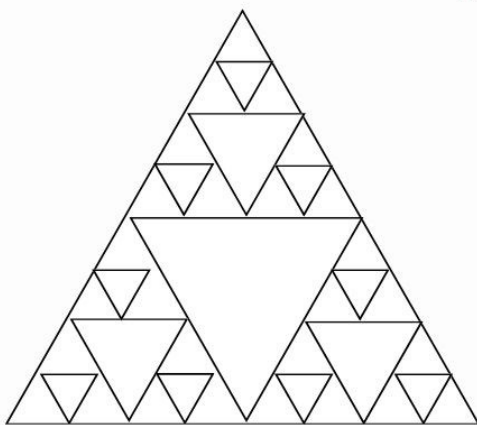
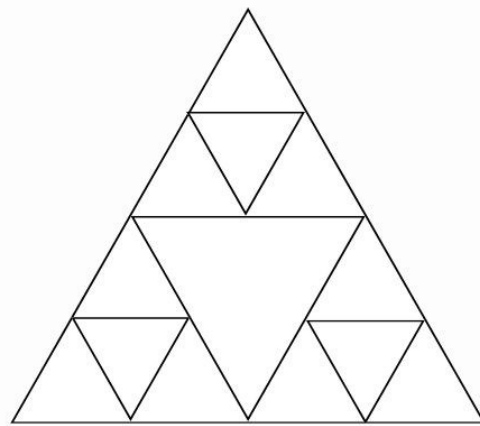
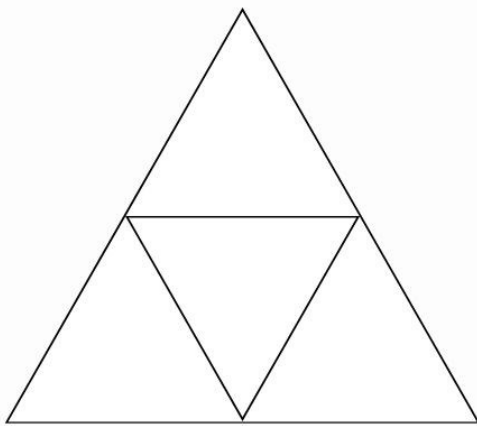
FRACTALS

CAN BE FOUND IN MATH

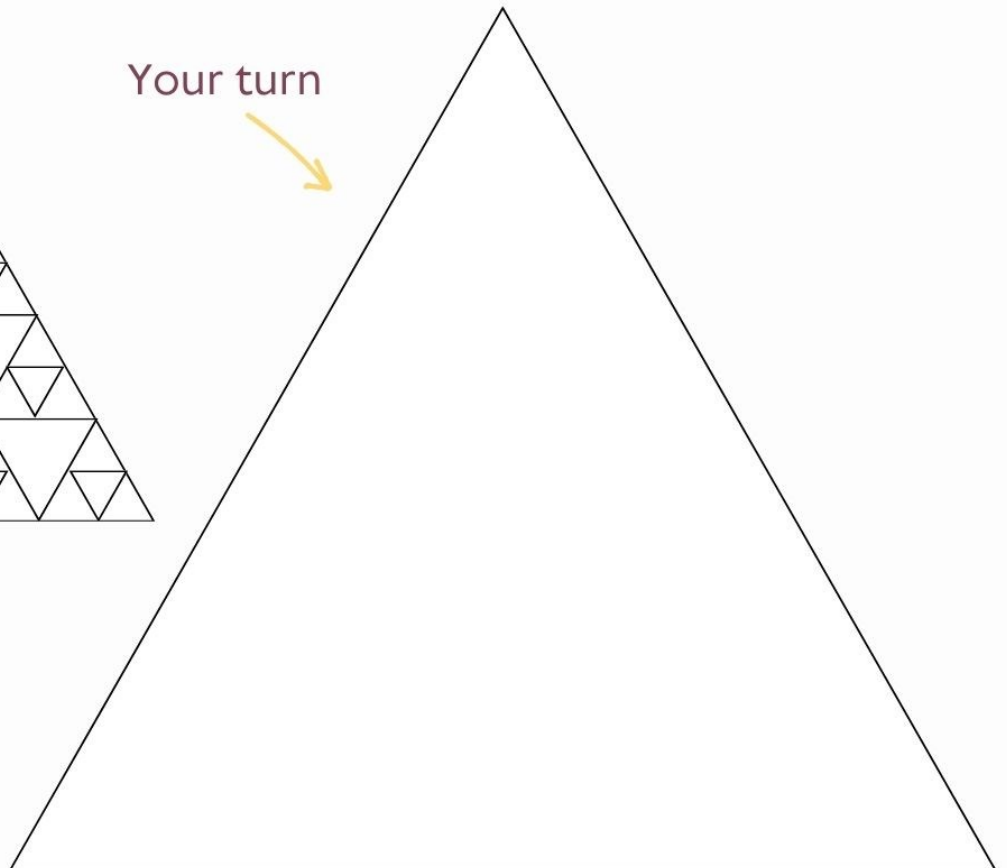


Instructions

We are going to learn how to draw a Sierpiński Triangle!
First draw a large Equilateral triangle.
Mark the center of each side. Join these to form a triangle inside the triangle.
On each of the outer triangle you have created, repeat the process.



Your turn



Fractals make me Fractious,

Measuring the edge,

Numbers on the ledge.

Fric Frac, Fractals make me Fractious...

From Fractals by Judy Ponceby

A large, light beige, cloud-shaped area with a scalloped border, containing 18 horizontal green lines for writing. The area is decorated with a green pencil eraser on the top left and a green pencil on the bottom right, both with yellow eraser tips.

MY NOTES ON 'FRACTALS'

[Watch this video](#) to learn what a Fractal is and what they are used for.