

Fibonacci Sequence

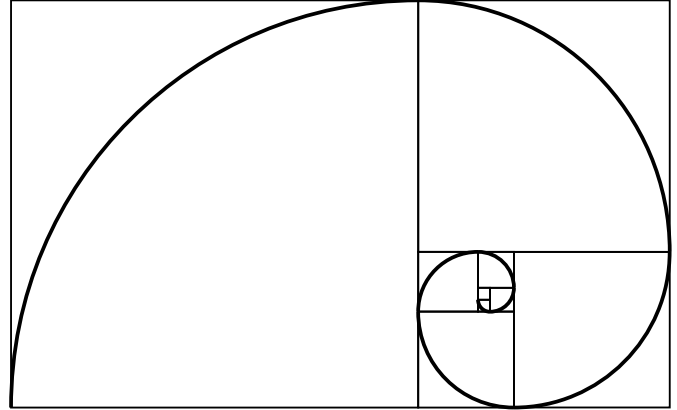
Have you heard of the Fibonacci sequence?

It is a mathematical pattern that exists in nature.

It works like this: starting with 1 and continuing by adding the previous 2 numbers together. For example:

$$\begin{aligned} 1 + 1 &= 2 \\ 1 + 2 &= 3 \\ 2 + 3 &= 5... \end{aligned}$$

1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89 and so on. How far along the sequence can you add up to?



A Fibonacci spiral created by drawing a line through the squares in a Fibonacci tiling, where the squares are the sizes of the Fibonacci sequence (from the middle out, 1, 1, 2, 3, 5, 8...)

So where can the Fibonacci sequence be seen in nature?

You can see the 'Fibonacci Spiral' occurring in the photos below. Take the sunflower for example, its centre has grown in a spiral shape made out of tiny dots. If you counted all the dots, they would increase in the same ratio that the numbers in the Fibonacci sequence do!

You can see the same spiral pattern in seashells, pinecones, pineapples and monkey puzzle trees.

Have you spotted any other spiral patterns like this in nature?
Click [here](#) for more information!

