Fibonacci Inspired Art

Who was Fibonacci?

Fibonacci was an Italian mathematician from the Middle Ages who worked on a series of numbers that were first written in 6th century India. The series of numbers became known as Fibonacci numbers.

Fibonacci Numbers

The Fibonacci sequence is a series of numbers that creates a pattern.
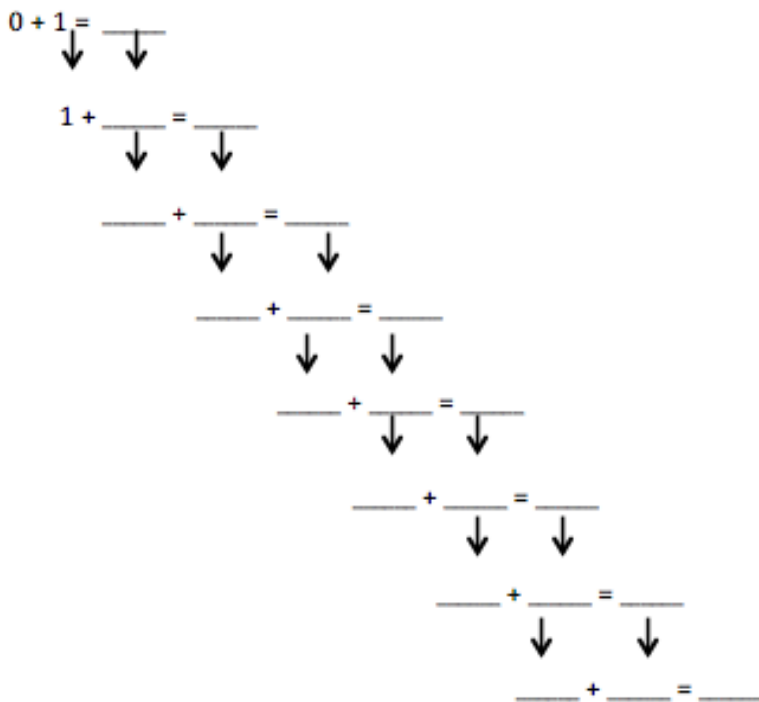
0, 1, 1, 2, 3, 5...

The next number is found by adding up the two numbers before it

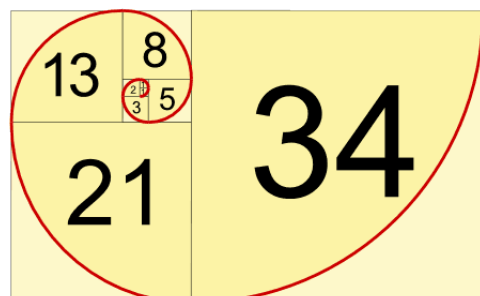The 2 is found by adding the two numbers before it (1+1)
The 3 is found by adding the two numbers before it (1+2)
And the 5 is (2+3) and so on

## Can you complete the sequence below?

0 + 1 = ____

1 + ____ = ____

____ + ____ = ____

____ + ____ = ____

____ + ____ = ____

____ + ____ = ____

____ + ____ = ____

____ + ____ = ____

When we make squares with those widths and draw a curved line from corner to corner, we get a spiral.

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Many artists use the Fibonacci Spiral in their paintings to create attractive pieces of work. They use the line of the spiral to place the subjects of their paintings – making the images more pleasing to the eye of the viewer.
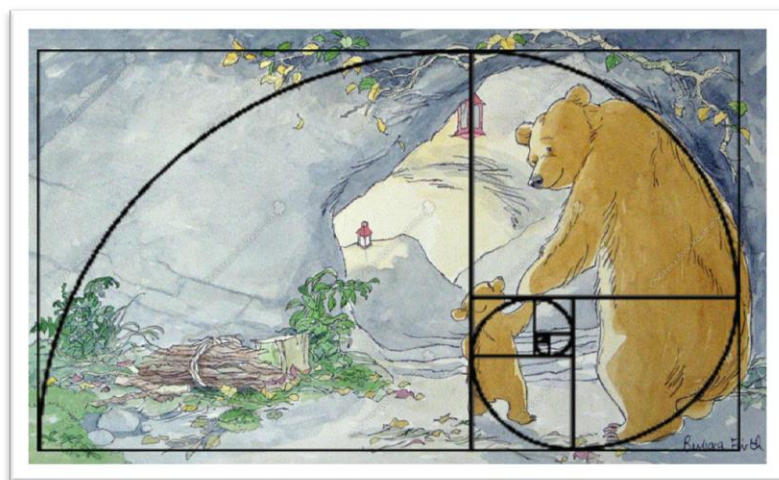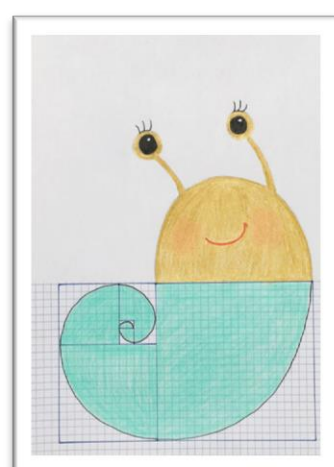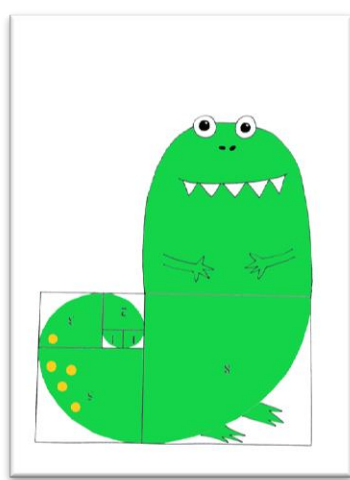

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Illustration by Barbara Firth

Make your own Fibonacci inspired art

Print the template and use the spiral to create your own artwork!
Perhaps the spiral could become a dinosaur's or whale's tail or a snail's shell.

No Printer?
No problem! You can use a pencil and ruler to draw your own squares and spiral. Squared paper makes it easier! Or why not draw your spiral outside on a path or wall using chalk!
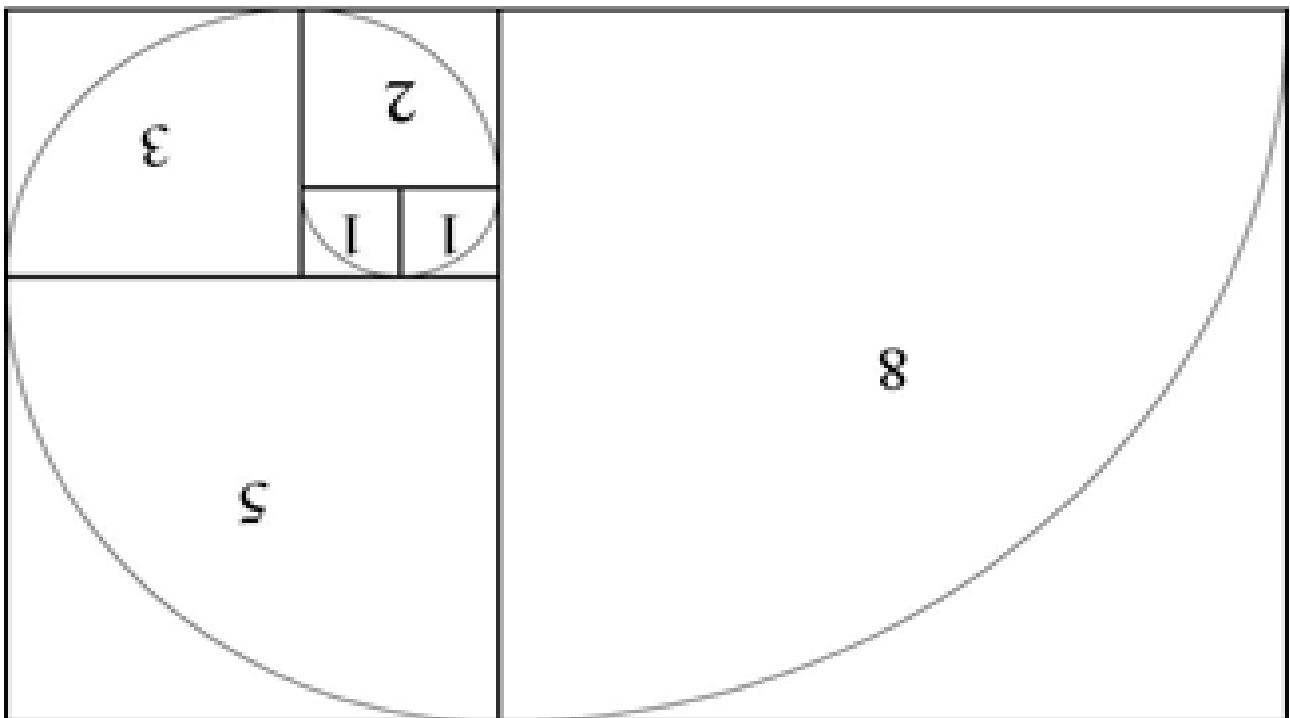
Why's this maths?
The Fibonacci spiral arises from the very simple number series which is based on addition. Fibonacci spirals are not only aesthetically pleasing in art and nature but also the most efficient way for plants to arrange their seeds, leaves etc. Magic? No, maths!

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 tagging **@mathsontoast** using #positiveaboutmaths

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Fibonacci Spiral Template

Use the spiral to create your own artwork