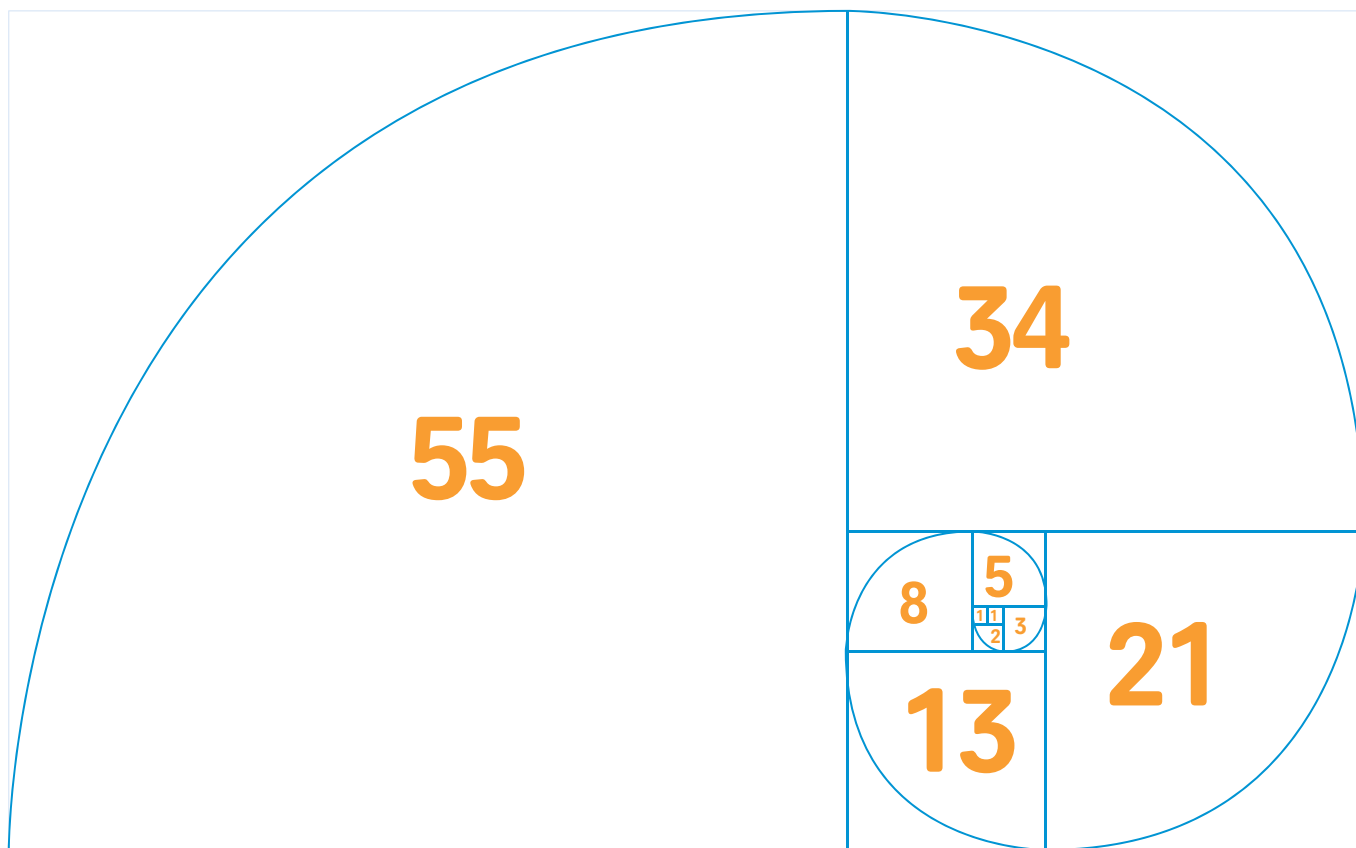


**CONVERSATIONS ACROSS  
ART AND MATHEMATICS.**

**'There is geometry in the humming of the strings,  
there is music in the spacing of the spheres'**

## **FIBONACCI SPIRALS ACTIVITY**

This activity is based on an idea by Hannah Colson and Georgina Oddy,  
2nd Year Primary BEd Maths Specialists at Plymouth University



**Level:** KS1/Lower KS2

**Cross Curricular Links:** Maths, Design, Art, The Environment

**Aim:** To introduce the idea of patterns within nature that can be linked to mathematics and to create a piece of art in response.

**About Fibonacci:** Fibonacci was an Italian mathematician from the middle ages who came up with a series of numbers called Fibonacci numbers. Each number added to the next makes the next number in the sequence and so on. Eg. 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55 etc. This sequence of numbers then creates a physical pattern.

# FIBONACCI SPIRALS ACTIVITY

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## For this activity you will need:

- Images of Fibonacci spirals for reference - attached
- Pine cones
- Glitter pens.

## To create your Fibonacci spiral artwork:

- Show the children the examples of patterns within nature that show a spiral Fibonacci pattern. These spirals can be found on flowers, other plants, fruit and vegetables.
- Give everyone a pine cone and using the glitter pens, trace the spiral of the pine cone. Leave them to dry.
- Create a display of the pine cone artwork.
- Stand back and admire your work.

It might look something like this....



# EXAMPLES OF FIBONACCI SPIRALS ALL AROUND US



# EXAMPLES OF FIBONACCI SPIRALS ALL AROUND US

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