

# Fibonacci Spiral



ART IN NATURE • STEM • GET OUTSIDE

Have you ever heard of the **Fibonacci sequence**?

This is a formula where each number is the sum of the two numbers before it:

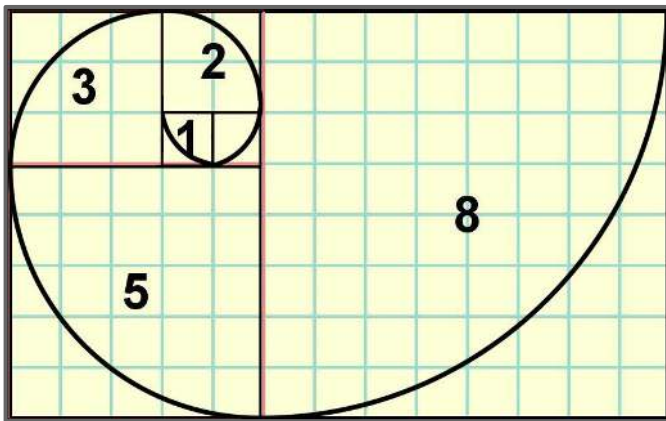
**0, 1, 1, 2, 3, 5, 8, 13, 21, 34... to infinity!** - or - **0+1=1, 1+1=2, 1+2=3, 2+3=5... to infinity!**

Can you see the pattern?

This formula gives us the golden spiral and shows up throughout much of nature, in flowers, ferns, pinecones, and especially shells!

## WHAT CAN YOU FIND?

We challenge you to go explore your backyard, neighborhood or even keep your eyes peeled while reading a book! Can you find the golden spiral in nature?



## NOW DRAW YOUR OWN:

### Materials:

- Graph paper or plain paper
- Pencil
- Ruler
- Compass (optional)
- Crayons or markers

### Directions:

1. Try drawing your own Fibonacci spiral using the image above as a reference.
2. Once you finish, get creative, and transform it into a spiral you might find in nature, such as a chameleon's tail! Try experimenting with color and texture. Use drawing utensils, paint, collage, or anything else you can think of to make your spiral your own!



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