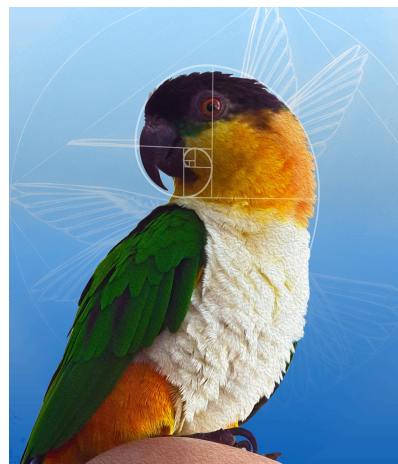
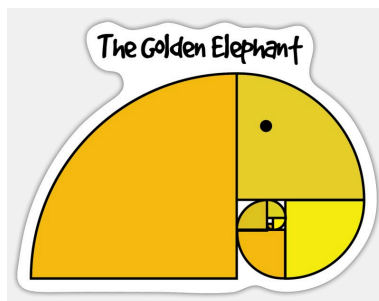


Happy Fibonacci Day! 11/23 Math Maker Circle

What are we making? Our own sequences and Fibonacci art.



Images: Alex21, u/timecapture, kooky love

Pathways

#40 Sequences, Series, Summability

#51 Geometry

#68 Computer Science



Send your creations, stories,
and questions to
reach.out@naturalmath.com
or text 919-388-1721.
We answer every message.

Math Makers Circle is an informal learning space where we make mathematics accessible to everyone in kind ways. Everyone makes a mathematical object in their own way and helps their math friends make theirs, unlocking pathways into various mathematics subjects.

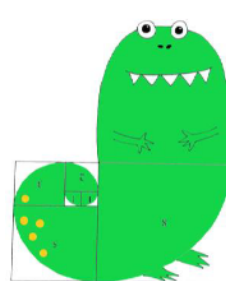
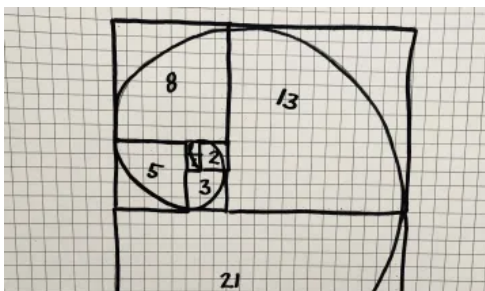
<https://msc2020.org/>



Guideposts

What will we make? Make your own **sequences** out of counters. Create visual art based on the popular **Fibonacci sequence**. Superimpose whimsical cartoons or abstract designs on the **Fibonacci spiral** to develop both number sense and geometric intuition. Build hands-on models of **recursion** for a taste of unplugged computer science.

Interesting choices? Choose to make a **random** sequence or build your sequence on a **predictable** rule or pattern. Use **counting** and algebra or **measuring** and geometry to make the Fibonacci sequence with beads or squares. Go on scavenger hunts for sequences in nature and culture, or design your own. What will you **name** your sequences?



Images: Almost Unschoolers, She Loves Science

What will we explore? Time to check out the mathematical implications of your choices!

- Is your sequence **random** or **rule-based**? If it has rules, what are they? Is it **decreasing**, **increasing**, or neither?
- Connect the **geometric model** and the **bead model** of the Fibonacci sequence through its **recursive formula**. Try to find recursive formulas for your own sequences.
- Share stories about the Silk Road. Fibonacci is the nickname for a 12th-century trader and mathematician. He loved the **Hindu-Arabic number system**, which he learned in North Africa from Silk Road merchants. Back in his home country, Italy, he published a big math book about that system. One of the most popular chapters in that book was about a sequence he was taught along the way.

