**Tree Fractals**

**Why**
Admire one of nature's most common multiplication models.

**How**
Draw, mark points, draw, mark points, draw...

**What**
Create a tree fractal: a series of repetitions of the base at special points.

1. Sketch an object or a shape that you or your children like. Let's call it the base.
2. Mark some points that stick out, such as the tips of cats’ ears. Draw smaller versions of the base at each of the marked points.
3. Keep repeating. You are making several layers of fractals.

**Explorations**
Do you think it counts as a tree fractal if there is only one shape at each level (like a radio antenna)?

- Which tree is easier to draw, with two or with three branchings?
- What numbers can be found on a given tree? What's the math term for them and what would you call them?
- Can you find examples of tree fractals in nature (trees of course… what else?), architecture, technology, crafts, and arts?

**Math is what you make of it!**

**Make Up Your Own Tree Fractal Model**

Email your ideas and pictures to reach.out@naturalmath.com

An activity from the upcoming “Multiplication Explorers” book by NaturalMath.com