

The seed of life is a pattern made with circles. How many circles? How many spaces to color? If you use the intersections of the circles as corners, what different polygons can you draw?





PENROSE TILING

Aperiodic tilings use shapes that never repeat, yet still fit together with no gaps or overlaps. This one is a Penrose tiling, made from a special set of shapes. How many shapes can you find? Try coloring, tracing, or continuing the design.





ALLANBRA TILING

The Alhambra in Spain is known for its tile patterns, rooted in Islamic art and math. Shapes repeat with symmetry and precision. What patterns do you see? Try coloring, tracing, or continuing the design.





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Here's a brand new polygon! A group of mathematicians discovered this polygon in just the last few years. The hat tile fits together without any gaps, but only in a way that doesn't repeat! Does that count as a pattern?







Quilts from Gee's Bend, Alabama, are famous for turning simple shapes into bold, one-of-a-kind designs. These grids use squares and triangles. How will you color them? Can you make a pattern, a picture, or something totally your own?









