Tiling

You need ☑ a ruler ☑ pattern blocks ☑ a classmate

Activity

Tessellations are tiling patterns that fit together without gaps or overlaps.

Here is a tessellation made from a set of hexagonal pattern blocks:

1. Draw tessellations using other sets of pattern blocks, for example, triangles.

2. Alexander tried to make a tessellation with square and hexagonal pattern blocks, but it didn't work:

a. Can you make a tessellation that uses hexagons and squares together? Can you explain why or why not?

b. What shapes could you use with a hexagon to form a tessellation?

3. Combine triangles and squares to form a tessellation.

4. Discuss with a classmate why some combinations of shapes form a tessellation and others don't.