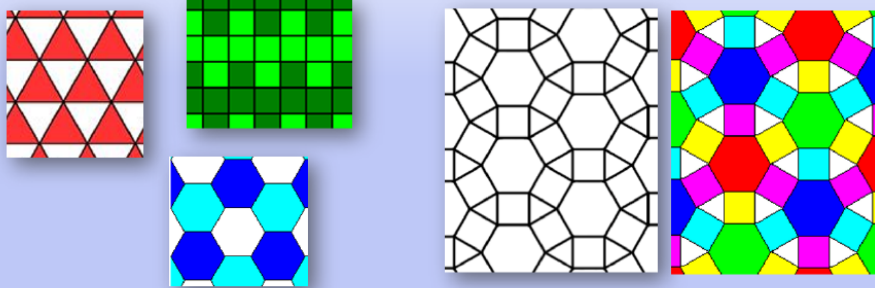


Friday Sheets

Tessellate 2-D shapes.

Tessellation is the practice of fitting shapes together without overlapping or leaving gaps.



Greek mathematician Pythagoras discovered that he could fit equilateral triangles, squares and hexagons together to tessellate! Mosaics like this were very popular in ancient Greece.

Investigation Make a tessellating mosaic

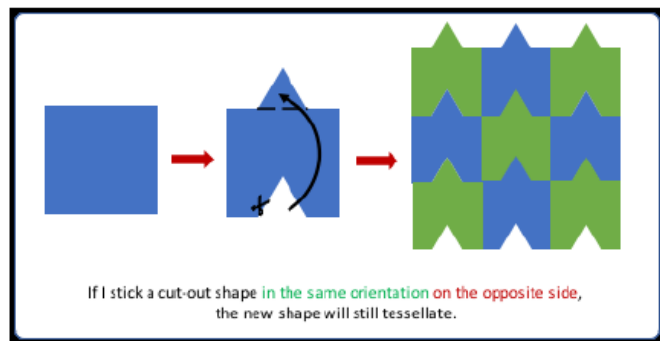
You will need:

- 'Tessellating using regular shapes' (*see resource*) printed onto card so that children can draw around the shape, or lots of paper copies
- scissors, glue
- coloured pencils

What to do:

Children can choose to use these shapes in one of several ways:

- Find a way to tessellate equilateral triangles, squares and hexagons in one design together (like Pythagoras). You could use the 'interactivity' at <https://nrich.maths.org/semiregular> to explore the same activity on-screen.
- Tessellate combinations of regular shapes (*see resource*) to make tiling patterns, colouring each shape in a specific colour.
- Adapt a square as was started on the Learning reminder (*see below*) to make their own design.
- Adapt a hexagon, taking shapes off three sides, and adding them to their opposite sides to make their own tessellating design.



Friday Sheets

Investigation Make a tessellating mosaic

