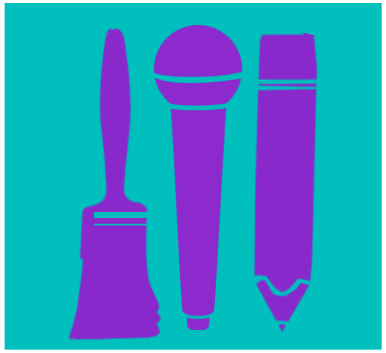
SPIRIT OF INNOVATION

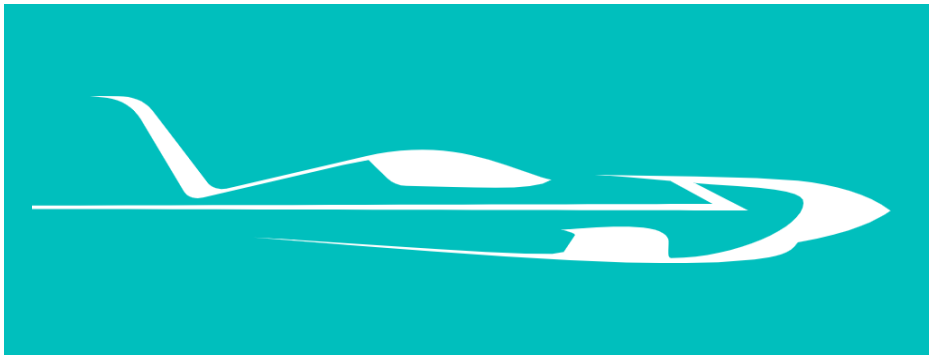
STEAM RESOURCES

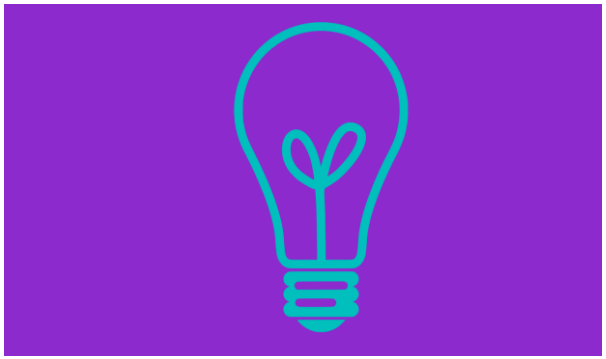


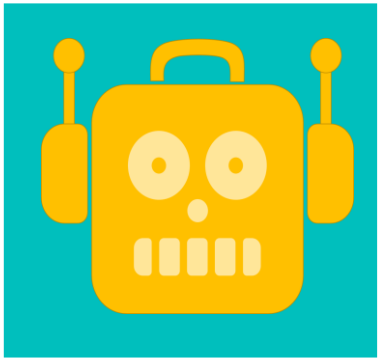
Spirit of Innovation

Year Six

Presentation – M C Escher



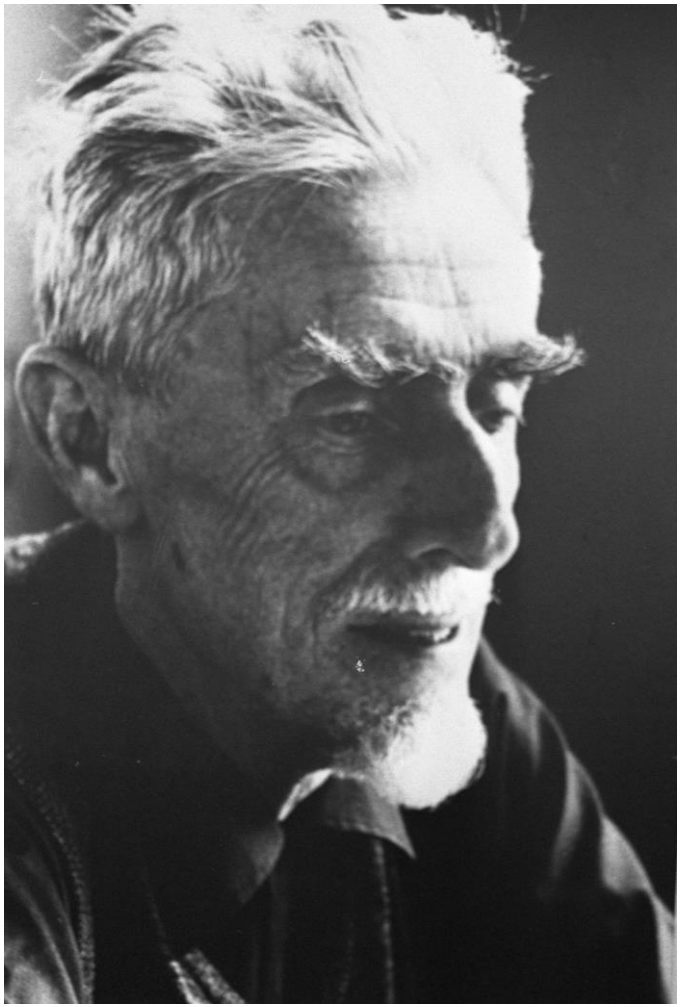




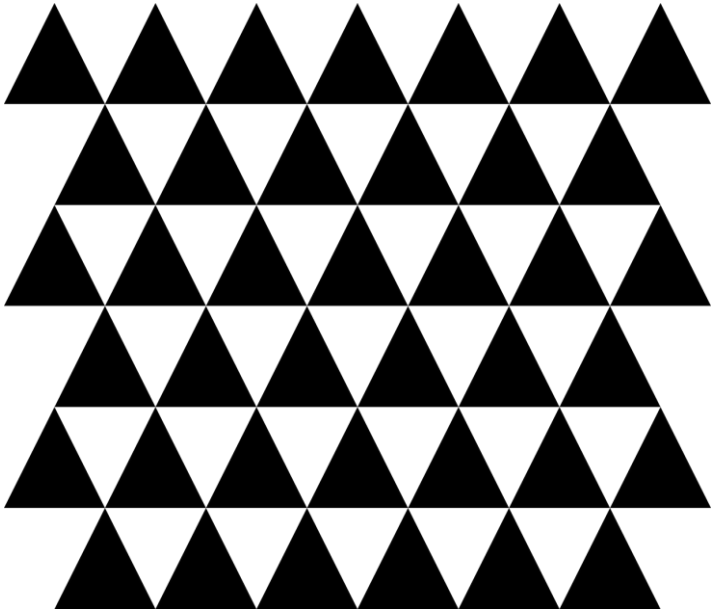
Tessellation – M C Escher

Tessellation is a way of tiling a surface with the same shape, repeated again and again. These shapes must fit perfectly together so that there are no overlaps or gaps.

https://www.youtube.com/watch?v=7GiKeeWSf4s

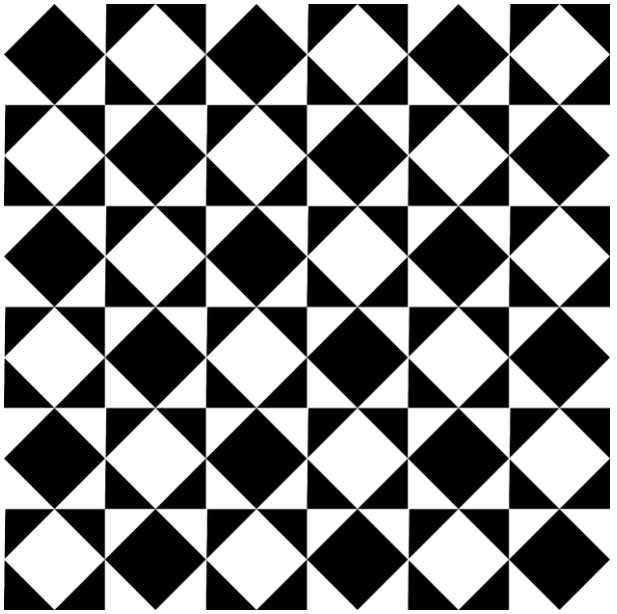


Maurits Cornelis Escher was born in Holland on June 17th (1898-1972) He is one of the world's most famous graphic artists. He is known for his use of tessellation, producing his first piece of tessellating artwork in 1925. Interlocking lions, block printed on to silk. By the time he died in 1972, he had created 137 piece of tessellating artworks!

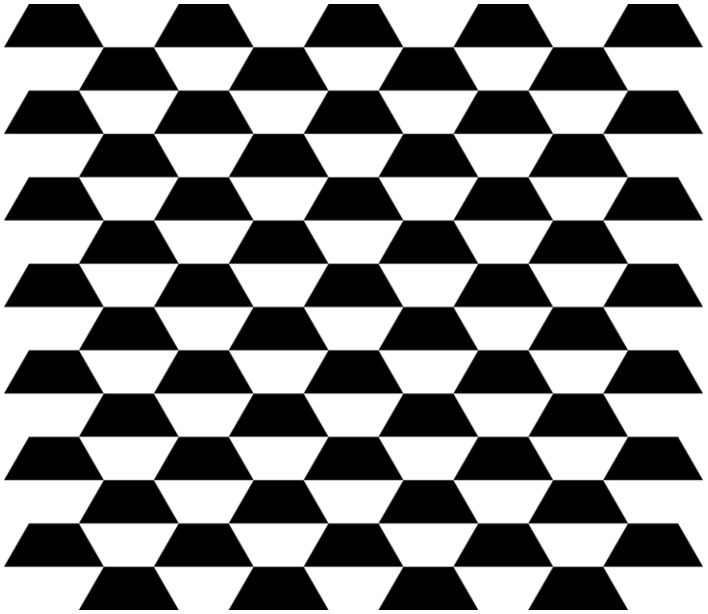


Regular Tessellations

Triangles, squares and hexagons are the only regular **shapes** which **tessellate** by themselves.

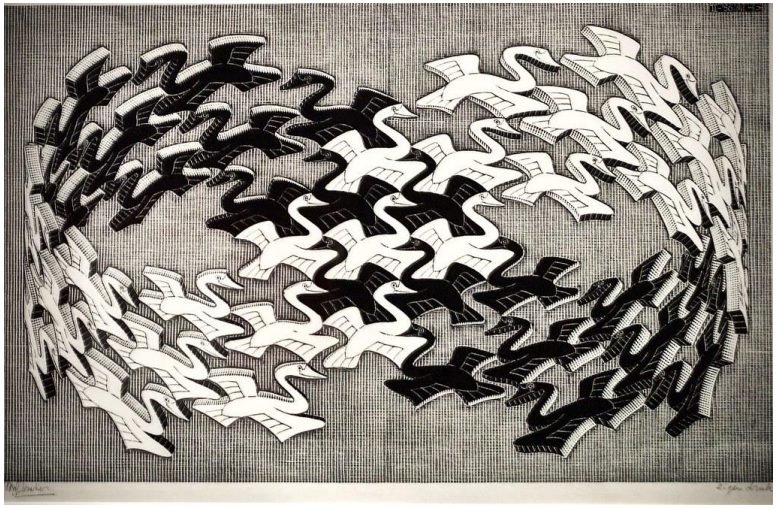


Tessellation Art Link



How to make you own tessellating tile link

M C Escher



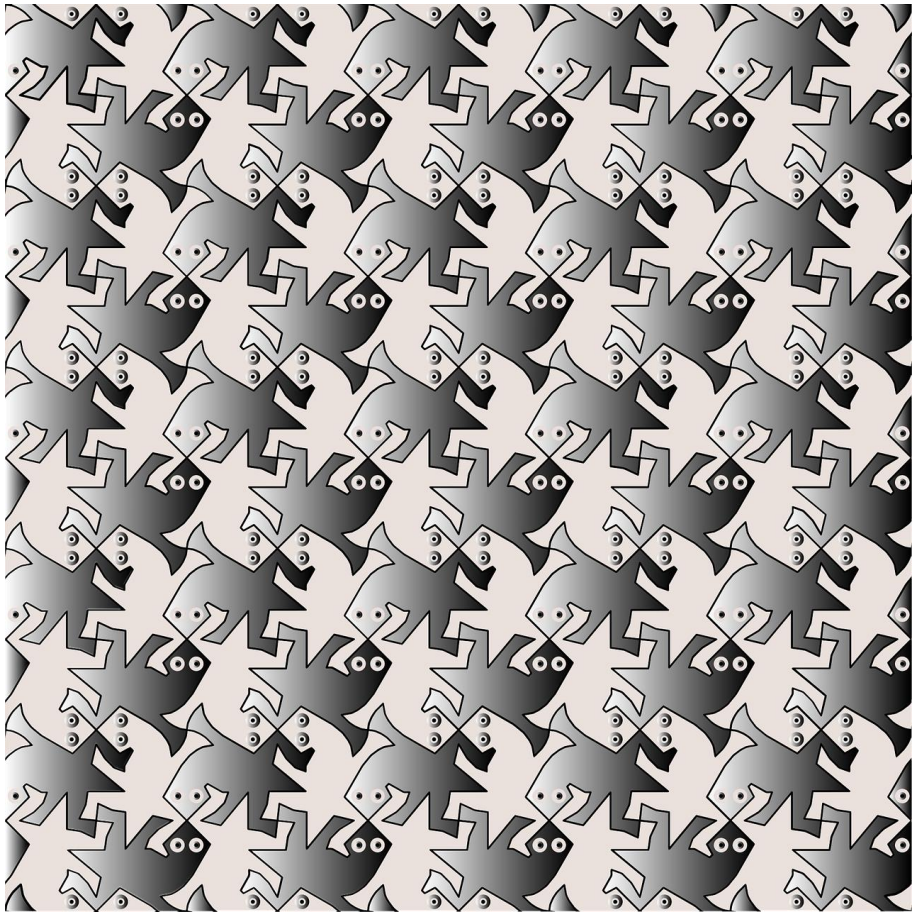
Swans

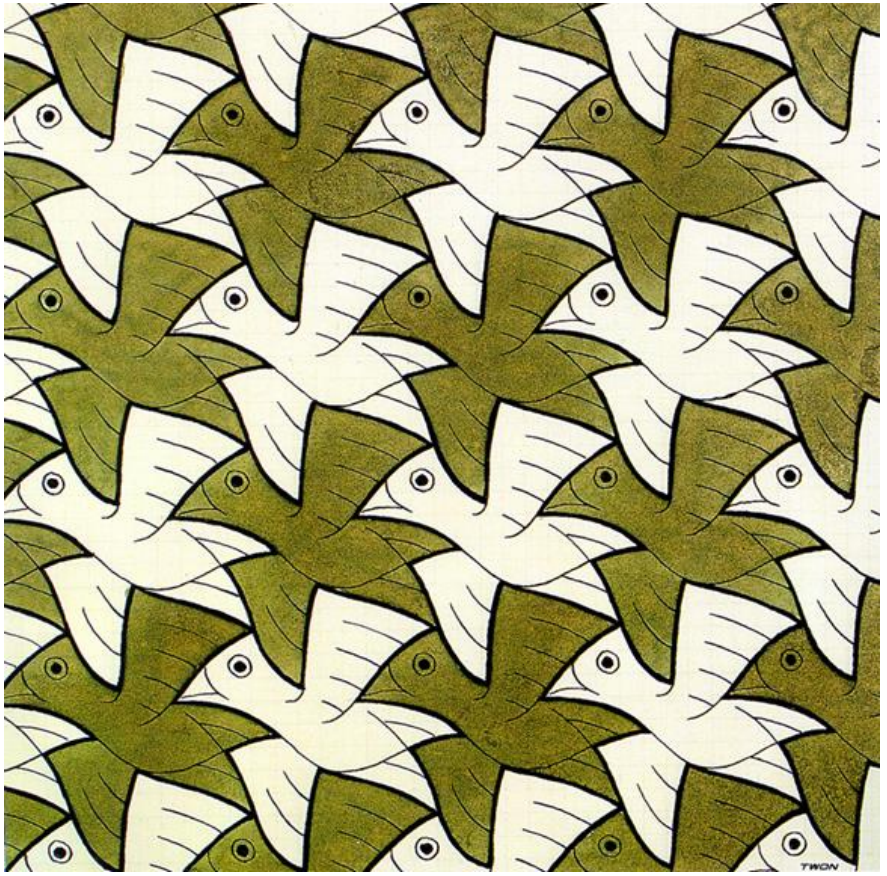
Fishes and Scales

Butterflies

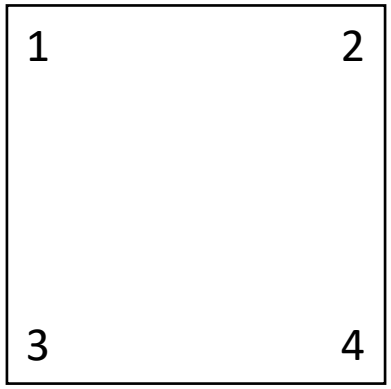
Two birds

In the style of M C Escher

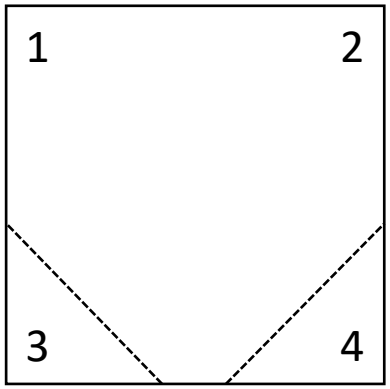




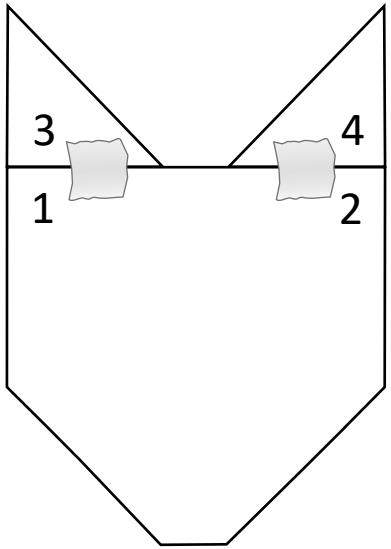
Using a Square Tile



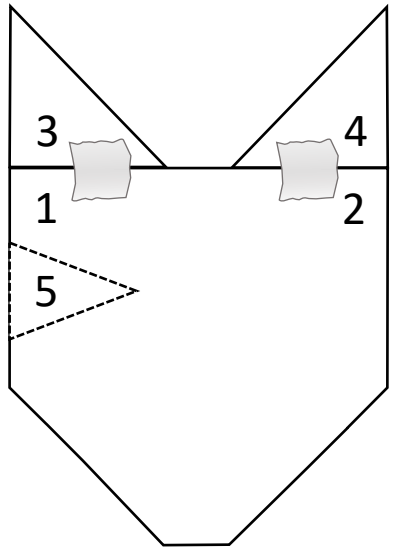
Start with a square tile of cardboard.



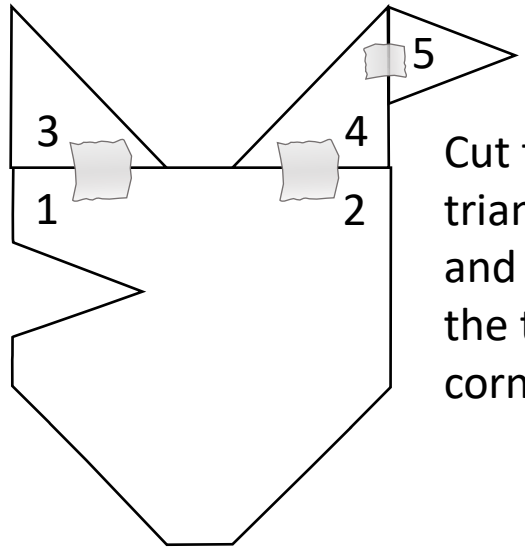
Cut along the dotted lines.



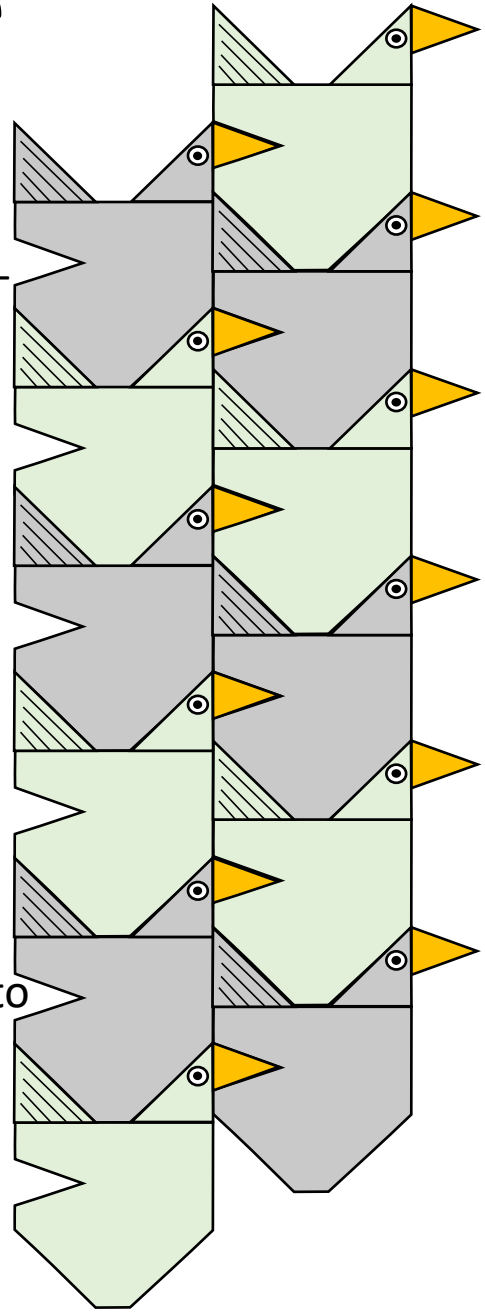
Join the bottom corners to the top of the tile.



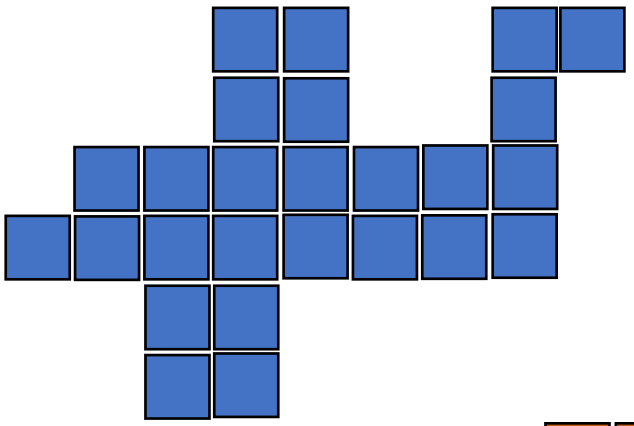
Draw a triangle mid-way down the tile.



Cut the triangle out and tape it to the top of corner 4.

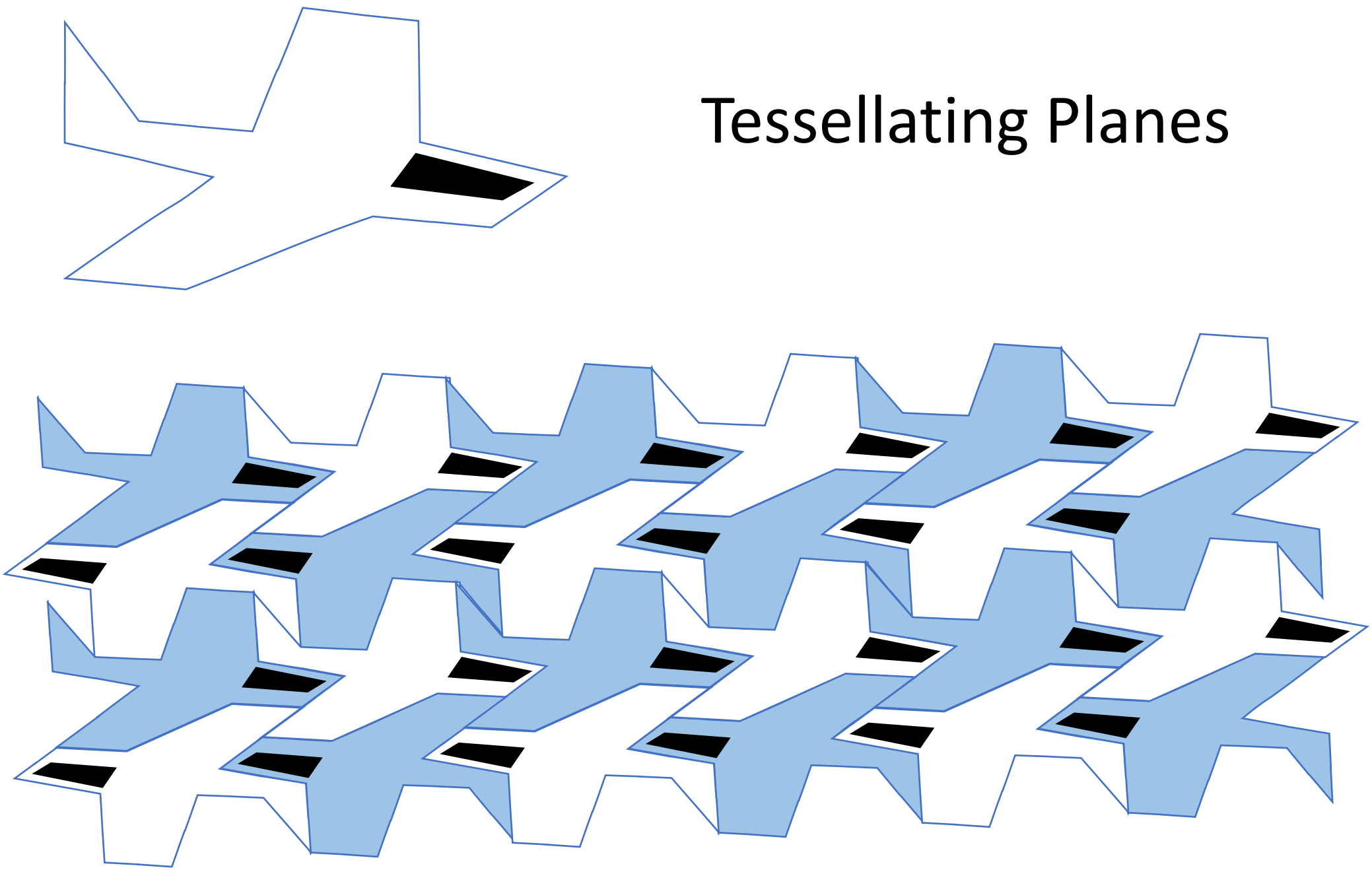


Using Gridded Paper

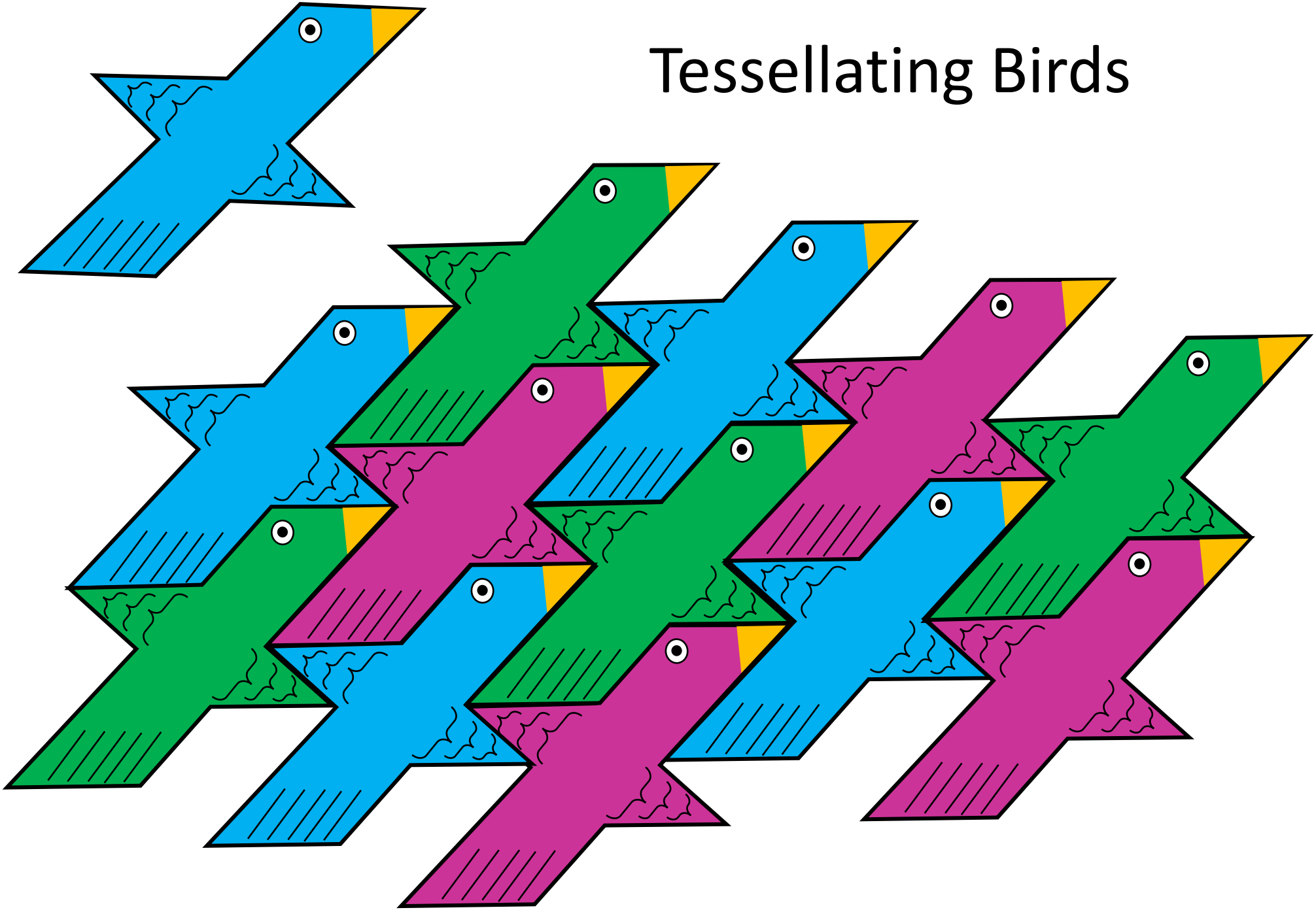


Use gridded paper to design a simple tessellating shape.

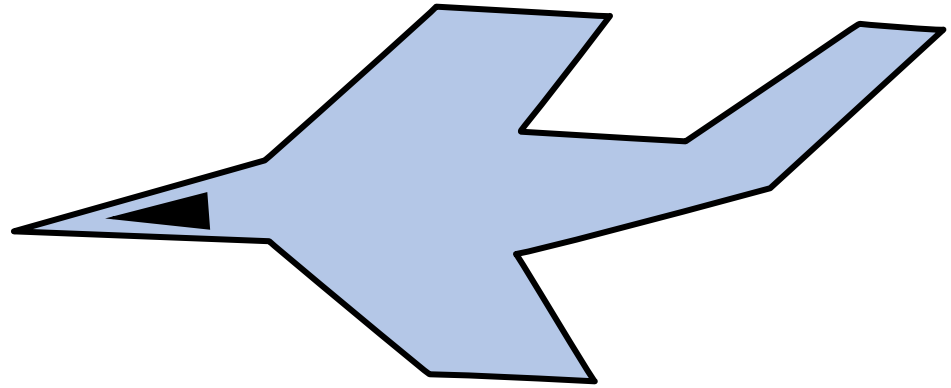
Tessellating Planes

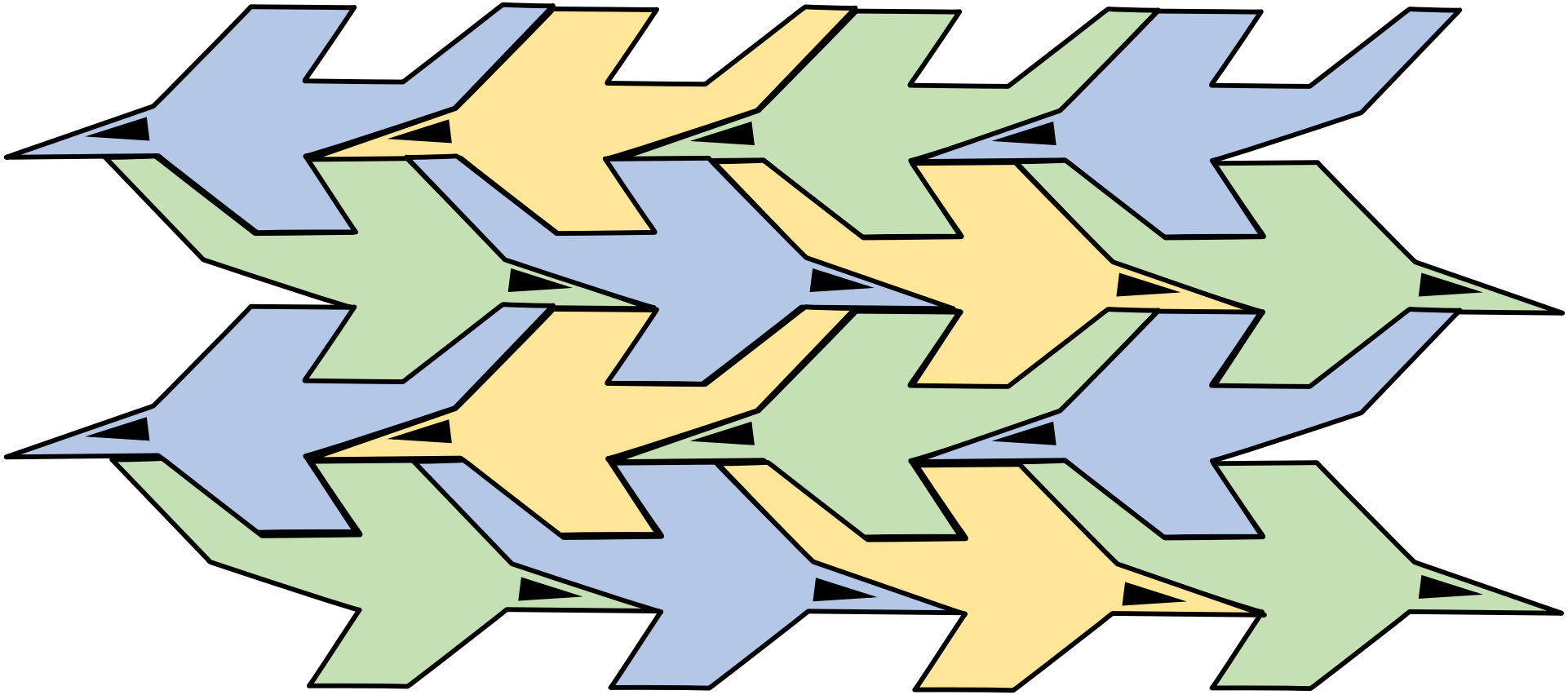


Tessellating Birds

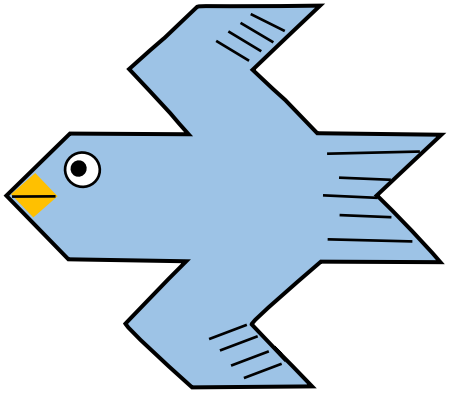


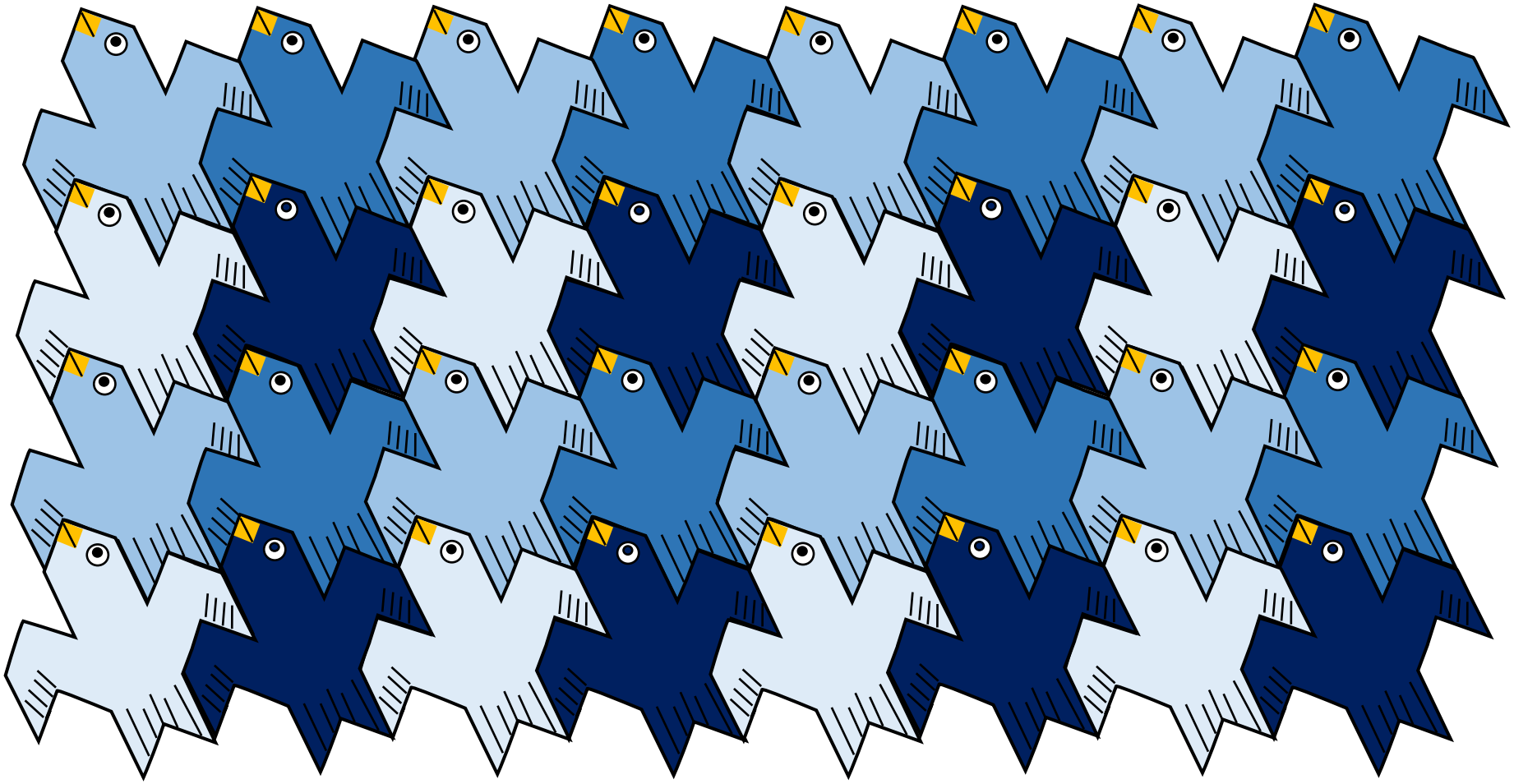
Tessellating Planes





Tessellating Birds



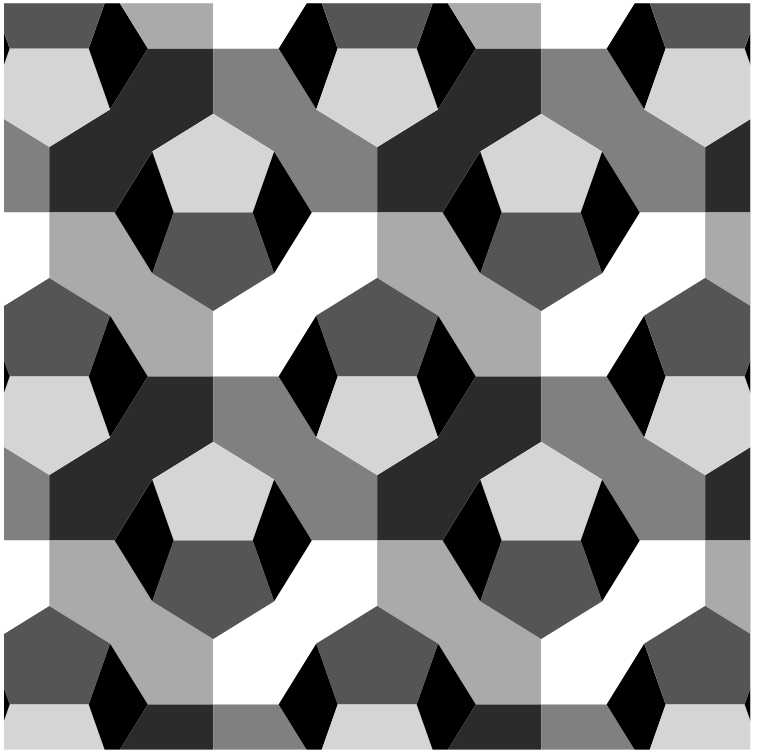


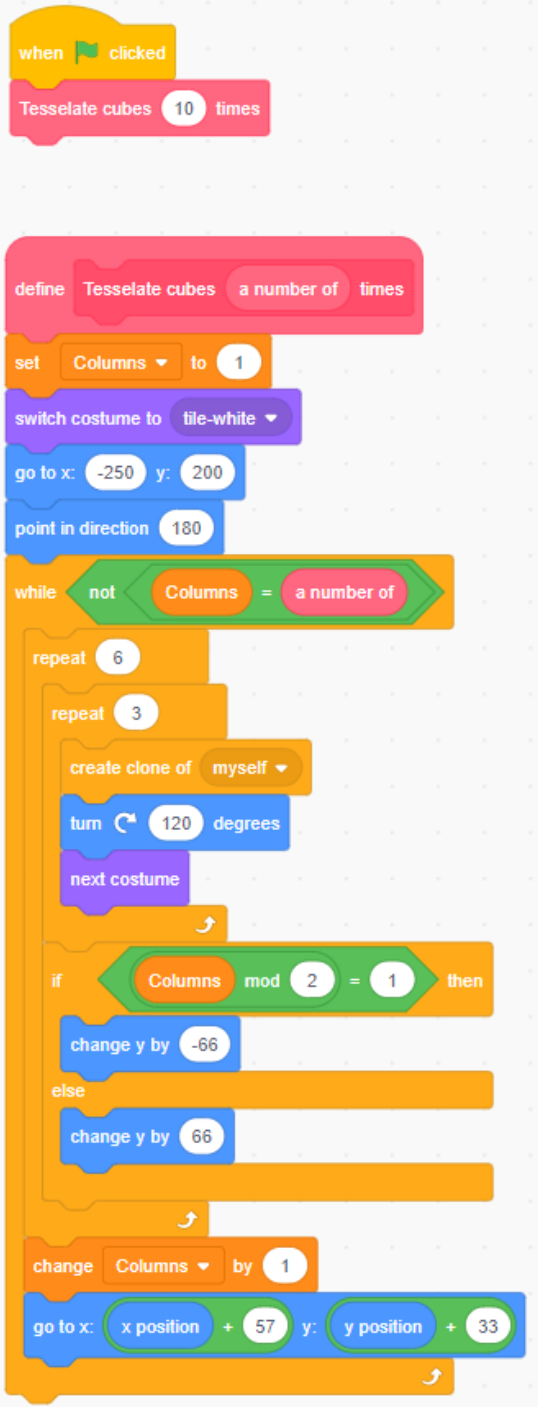
You can make your own tessellating pattern on Scratch.

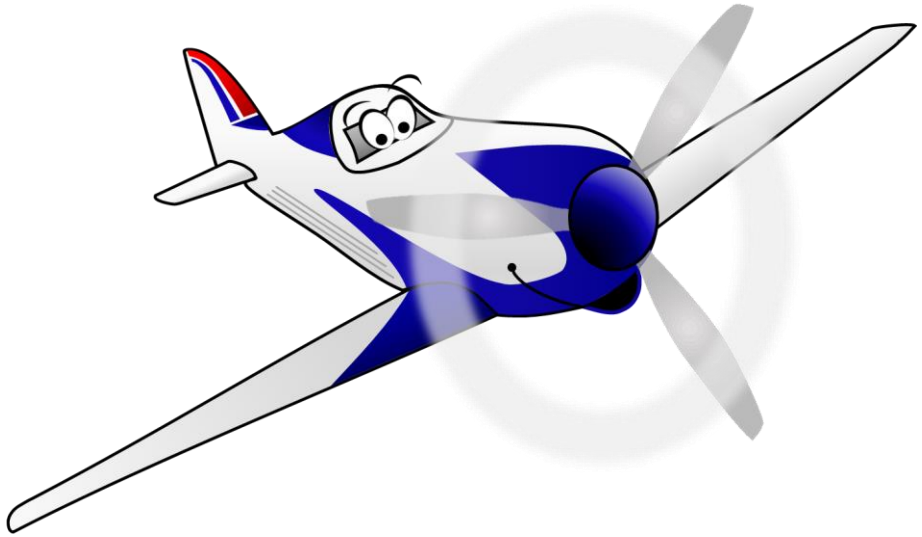
Click the link to learn how.

[Tessellation using Scratch]

Then use what you have learnt to make your own Scratch tessellation!







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