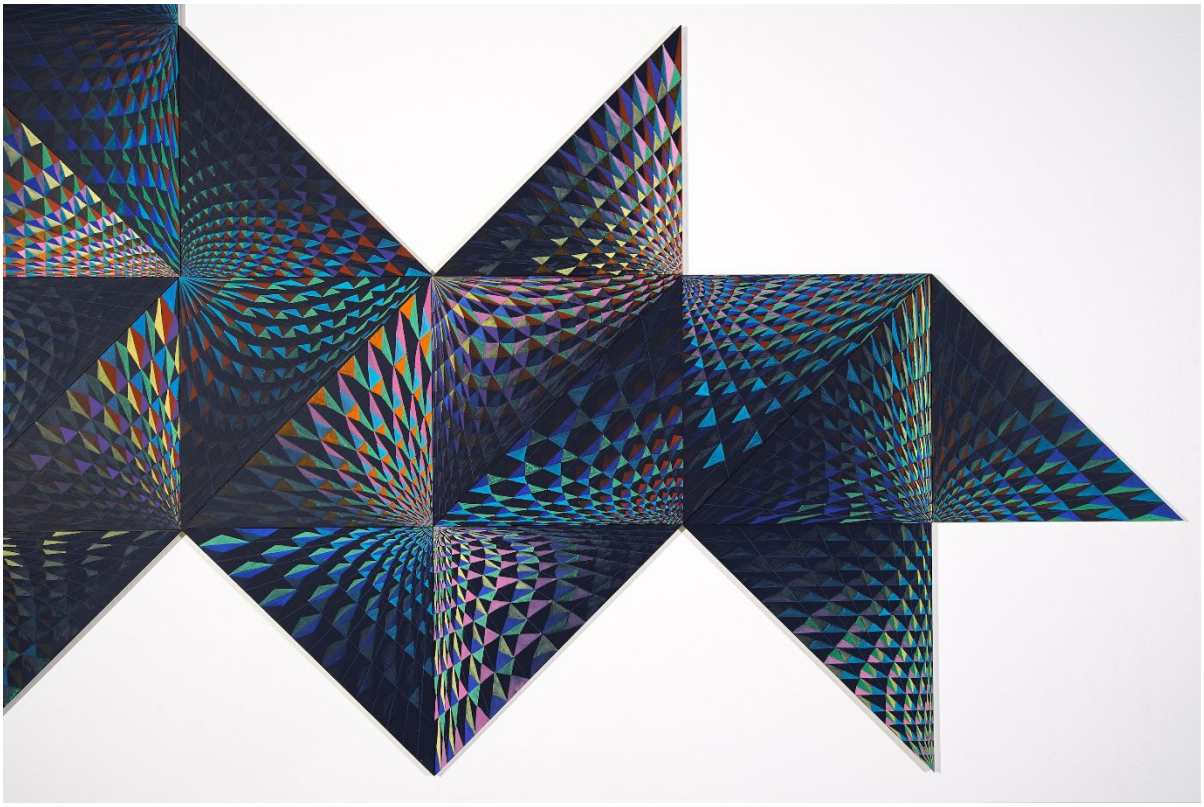
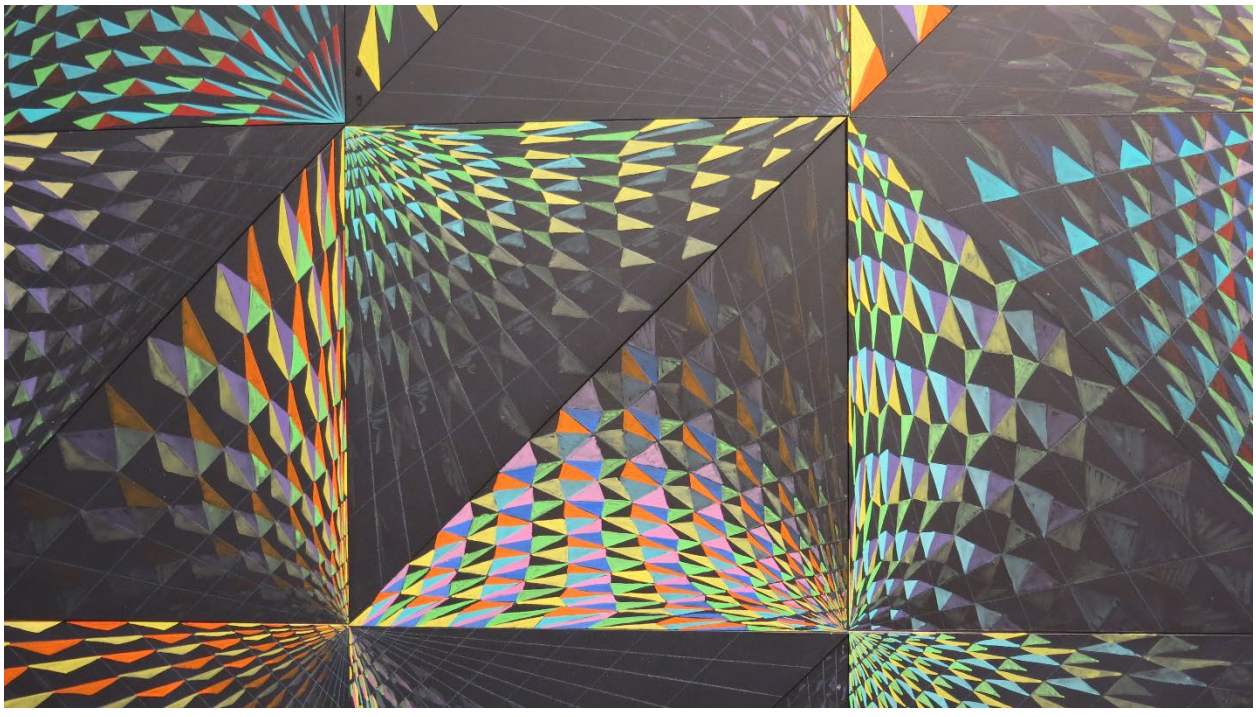
Artist: Julie Brooke **Exhibition**: Seeing Science

Some artists investigate the parallels between research in science with visual arts. Contemporary Australian artist **JULIE BROOKE** is a former biomedical scientist who explores design principles, symmetry and mathematical structures found in the natural word. Her work makes visible the geometric patterns in plants, shells, beehives and butterfly wings. https://www.juliebrooke.net/

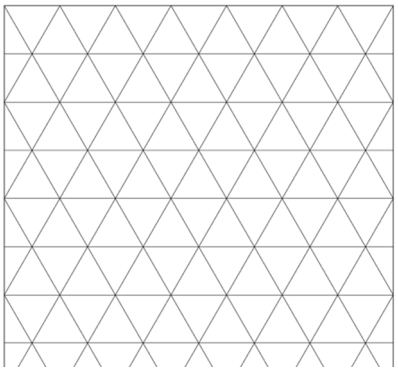


Extended Labyrinth, 2015, gouache, pencil and acrylic on 109 boards, 200 x 300cm (detail below)

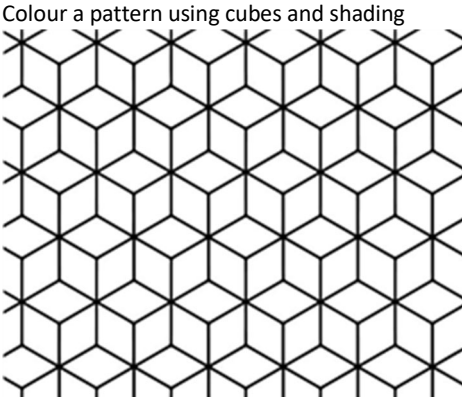


In her painting, Brooke explores mathematical effects of butterfly wing scales forming during metamorphosis. She reduces the complex labyrinthine lattice to a flat 2-D pattern and uses complimentary colours to recreate the shimmer of a butterfly wing.

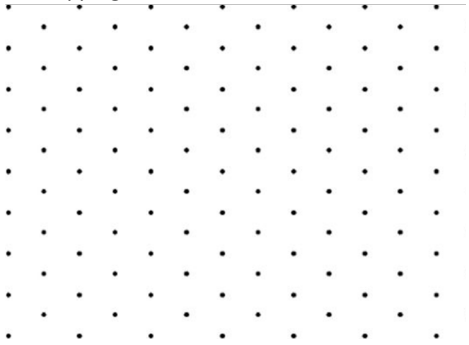
TRIANGULATION
Colour a pattern using triangles and line



CUBIC
Colour a pattern using cubes and shading



HEXAGONAL
Create a hexagonal pattern (6-sides) and overlapping



Complete the shape of the butterfly's wing using a triangulation, cubic or hexagonal pattern