

EARLY ISLAMIC CIVILISATION GEOMETRIC PATTERNS

LO: TO EXPLORE AND DESIGN GEOMETRIC PATTERNS

PATTERNS FROM THE ALHAMBRA IN SPAIN.

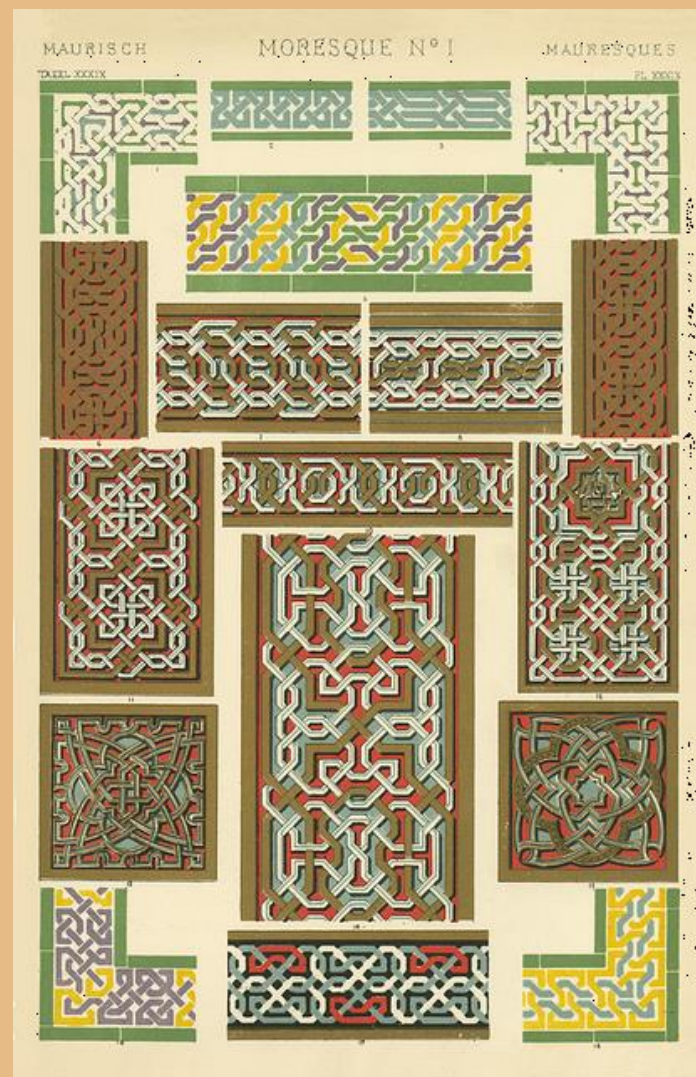
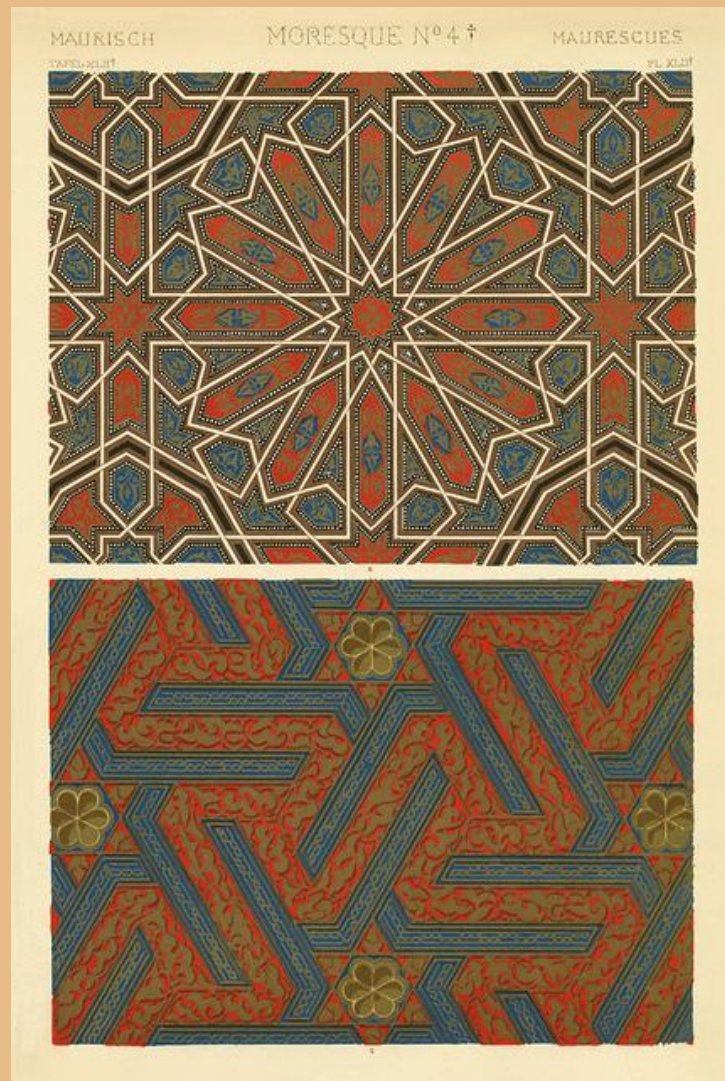


Photo courtesy of MCAD library (@flickr.com) - granted under creative commons licence - attribution

THESE DESIGNS WERE TRACED
FROM A COPY OF THE QURAN IN
THE MOSQUE EL BARKOOKEYEH.



Photo courtesy of MCAD library (@flickr.com) - granted under creative commons licence - attribution

BAYT AL-KRATLIYAH - FLOOR MOSAICS



Photo courtesy of Mark Muehlhaeusler (@flickr.com) - granted under creative commons licence - attribution

BAYT AL-KRATLIYAH - FLOOR MOSAICS



Photo courtesy of Mark Muehlhaeusler (@flickr.com) - granted under creative commons licence - attribution

BAYT AL-KRATLIYAH - FLOOR MOSAICS



Photo courtesy of Mark Muehlhaeusler (@flickr.com) - granted under creative commons licence - attribution



www.twinkl.co.uk
Copyright © 2020 twinkl Ltd

Photo courtesy of jasecampbell (@flickr.com) - granted under creative commons licence - attribution

DOMES, LOTFOLLAH MOSQUE, ISFAHAN



BEN YOUSSEF MADRASAH, MARRAKECH

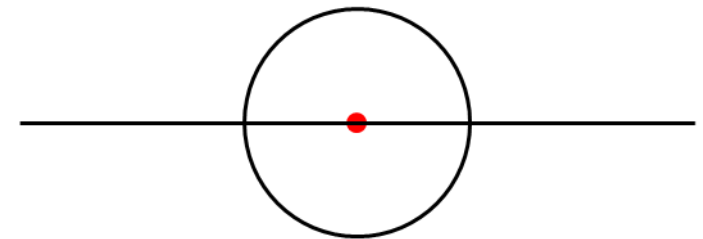


SEVEN OVERLAPPING CIRCLES

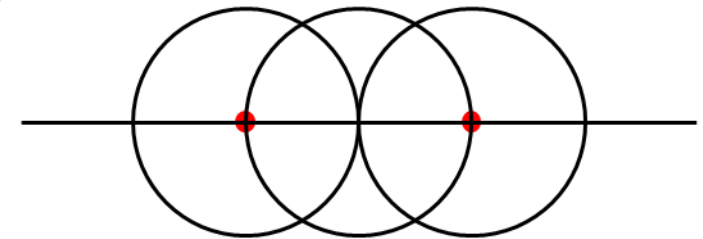
1 USE A RULER TO DRAW A STRAIGHT, HORIZONTAL LINE.



2 USE A COMPASS TO DRAW A CIRCLE.

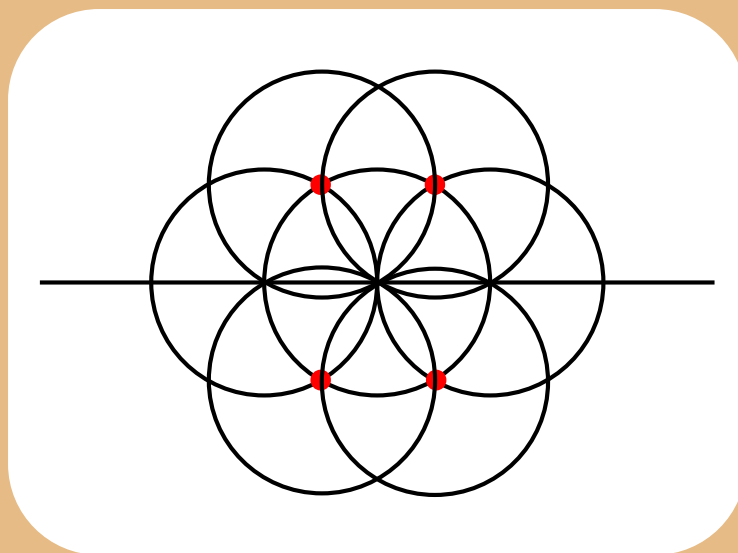


3 PUT THE POINT OF THE COMPASS WHERE THE LINES MEET TO DRAW TWO MORE CIRCLES EITHER SIDE OF THE FIRST.



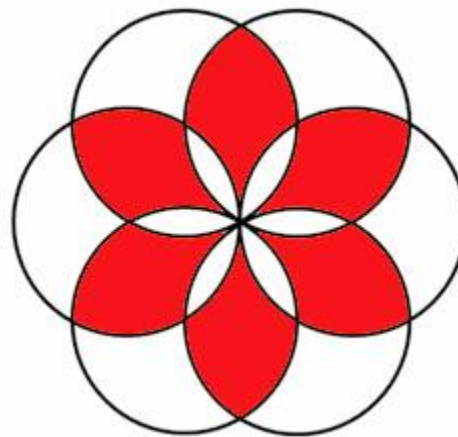
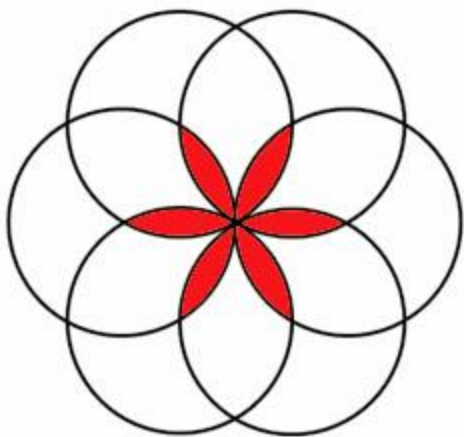
4

DRAW FOUR MORE IDENTICAL CIRCLES, PLACING THE COMPASS POINT WHERE THE CIRCLES MEET.

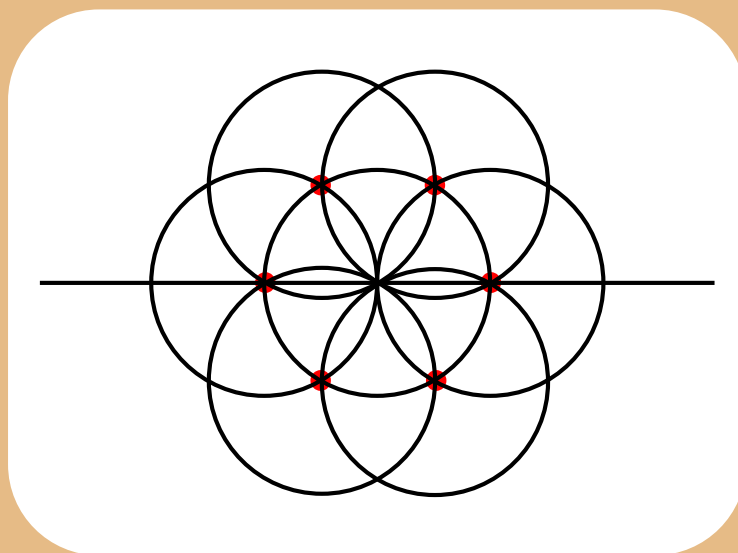


WHAT SHAPES CAN YOU NOW FIND INSIDE THIS MOTIF?

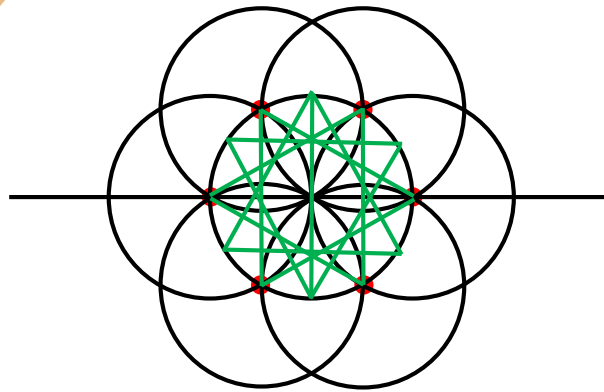
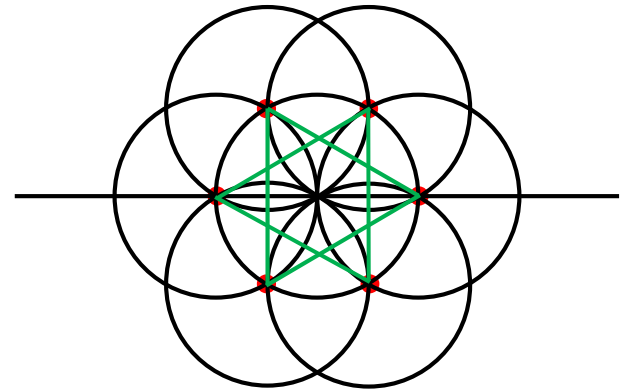
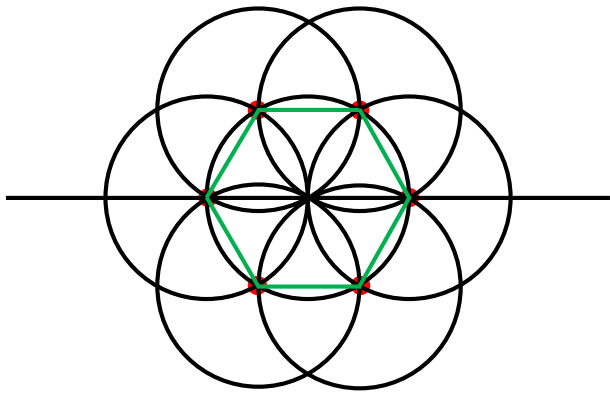
WHAT SHAPES CAN YOU NOW FIND INSIDE THIS MOTIF?



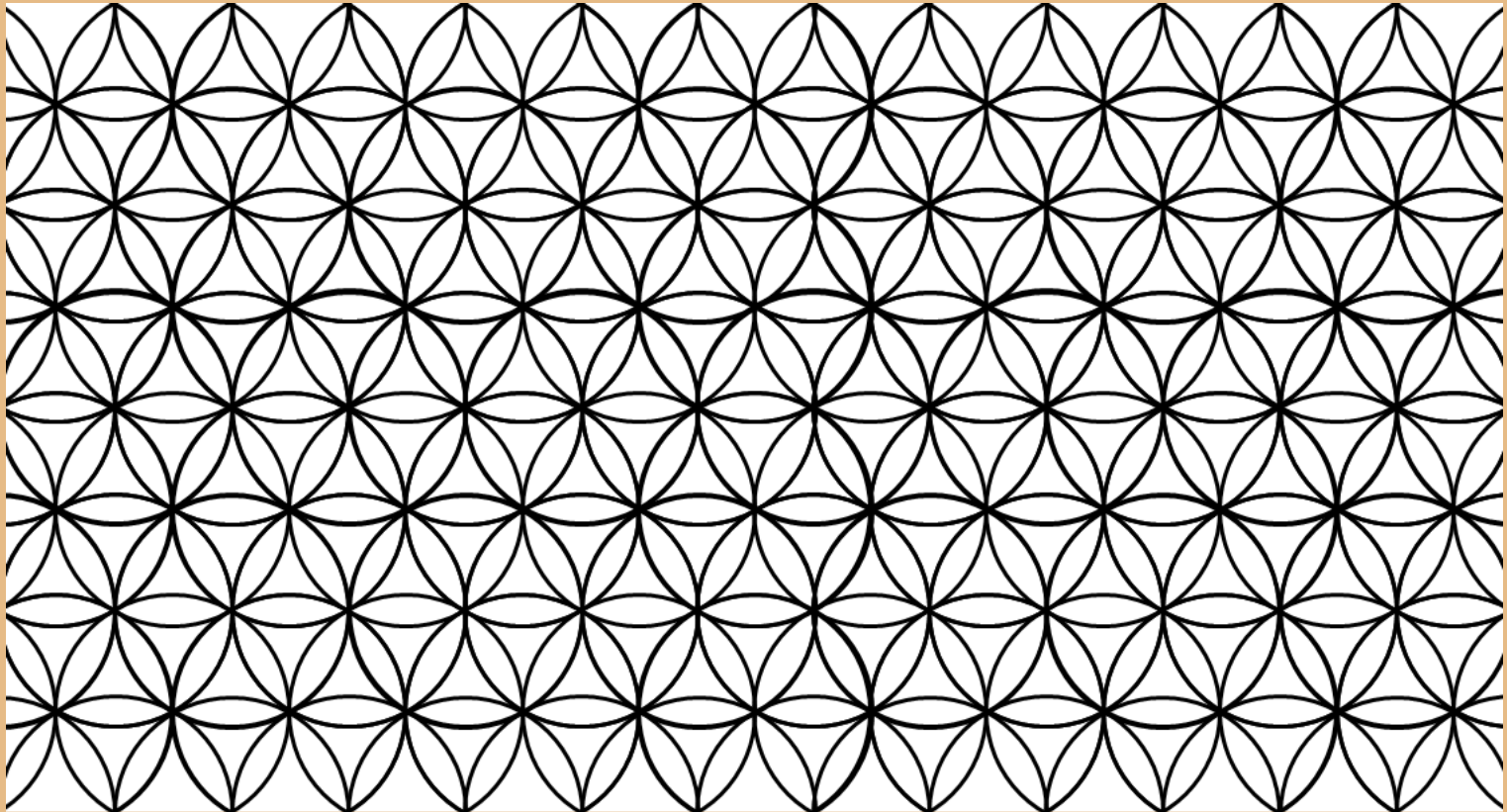
WHAT SHAPES CAN YOU FIND INSIDE THIS MOTIF BY CONNECTING INTERSECTING LINES WITH STRAIGHT LINES?



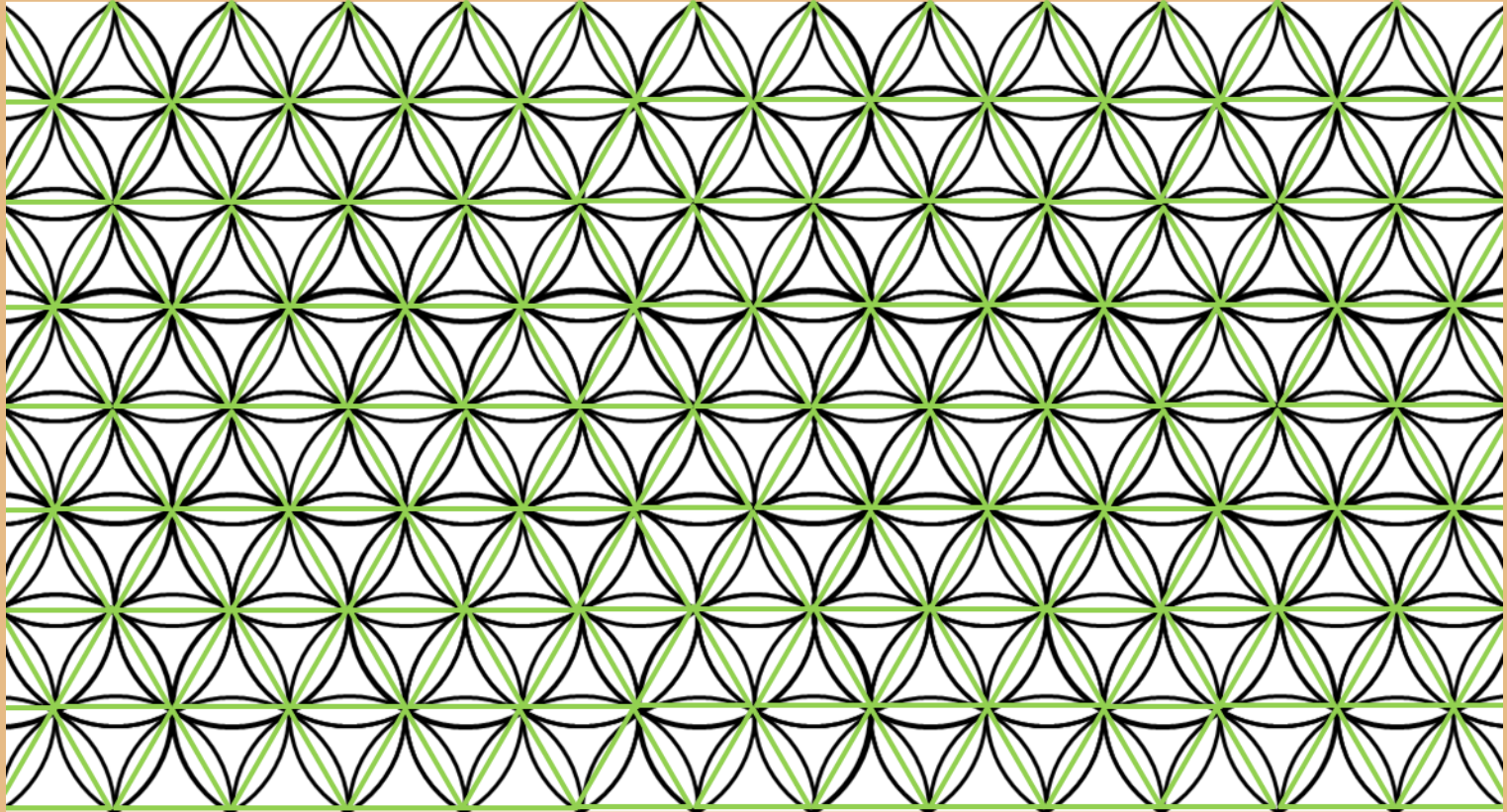
WHAT SHAPES CAN YOU FIND INSIDE THIS MOTIF BY CONNECTING INTERSECTING LINES WITH STRAIGHT LINES?



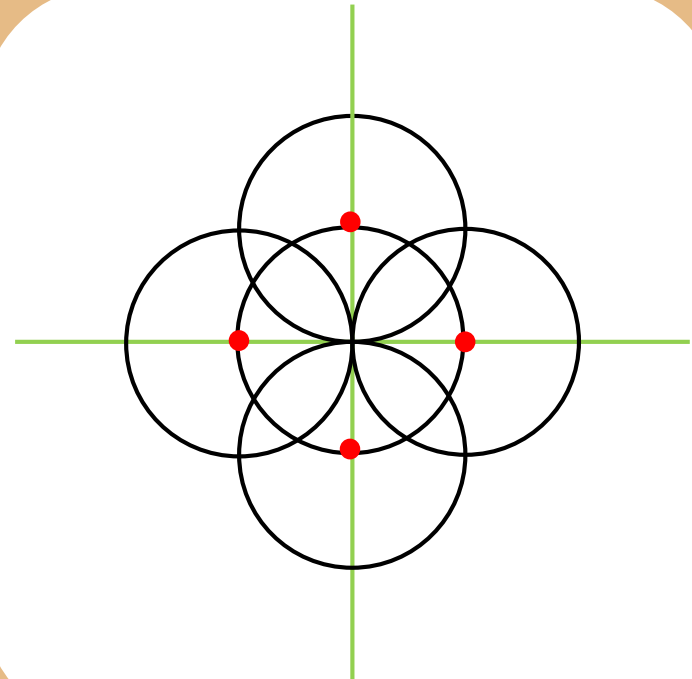
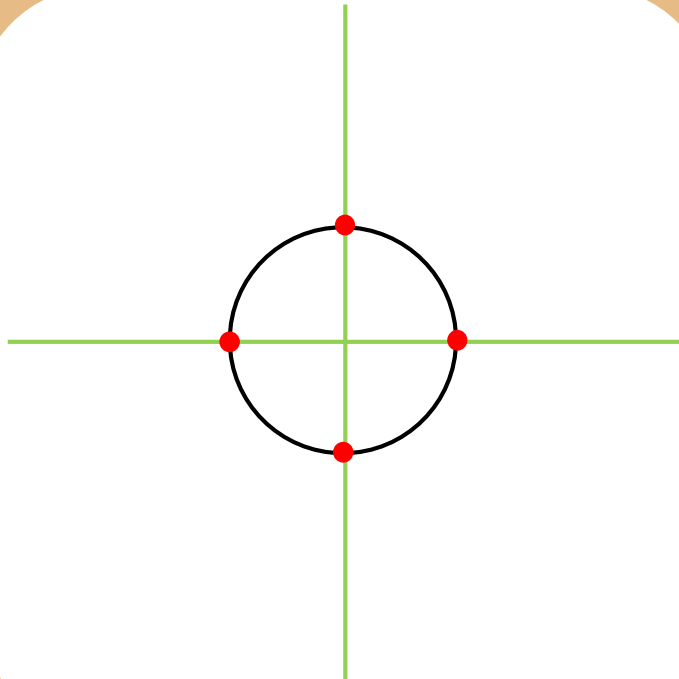
REPEAT THE MOTIF TO CREATE LARGER PATTERNS.



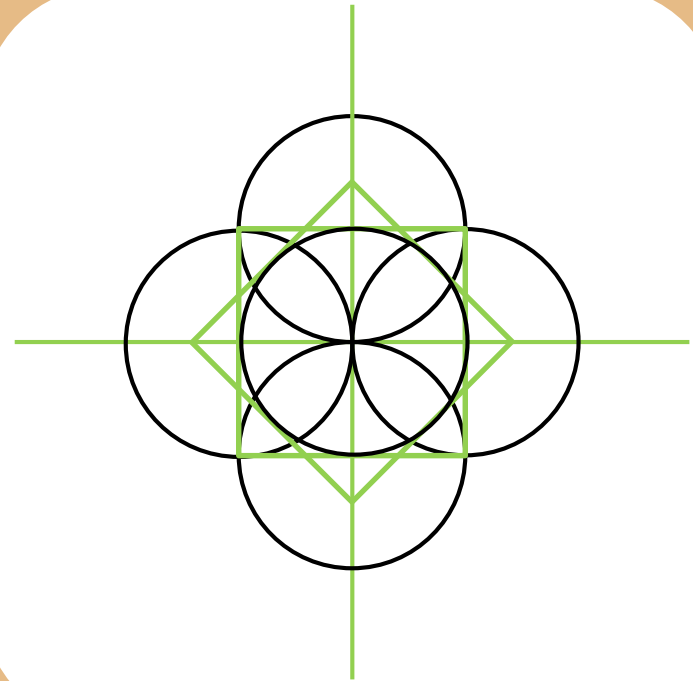
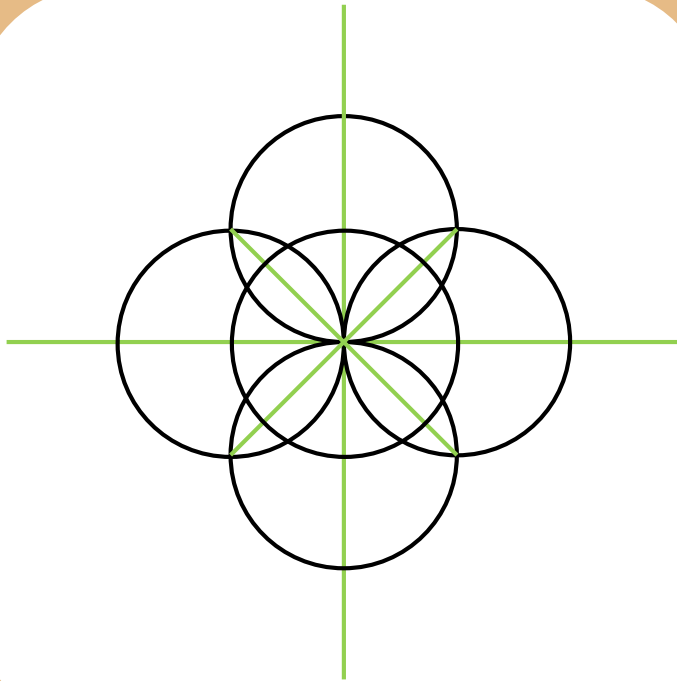
CONNECTING THE INTERSECTING LINES WILL GIVE YOU A
TRIANGULAR GRID.

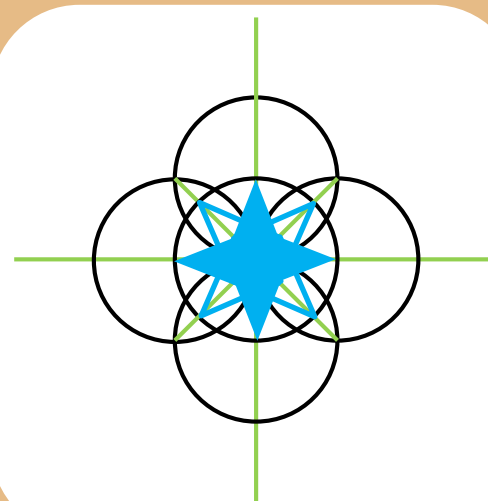
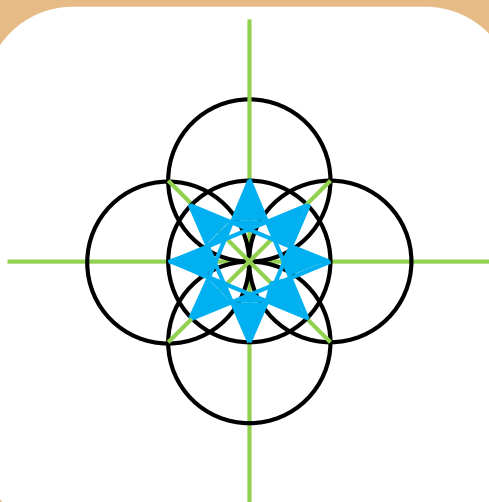
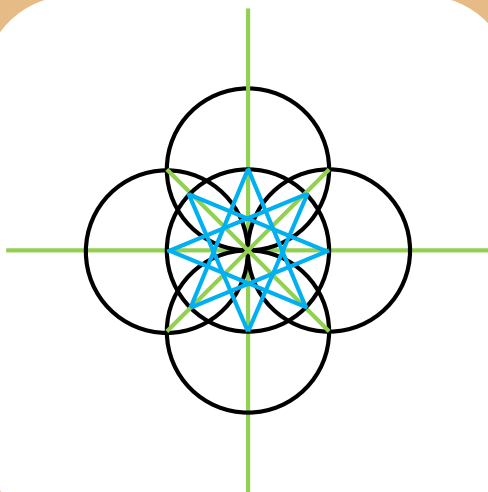


USING TWO PERPENDICULAR STRAIGHT LINES AND OVERLAPPING
FIVE CIRCLES INSTEAD OF SEVEN WILL GIVE YOU A DIFFERENT MOTIF
AND GRID.

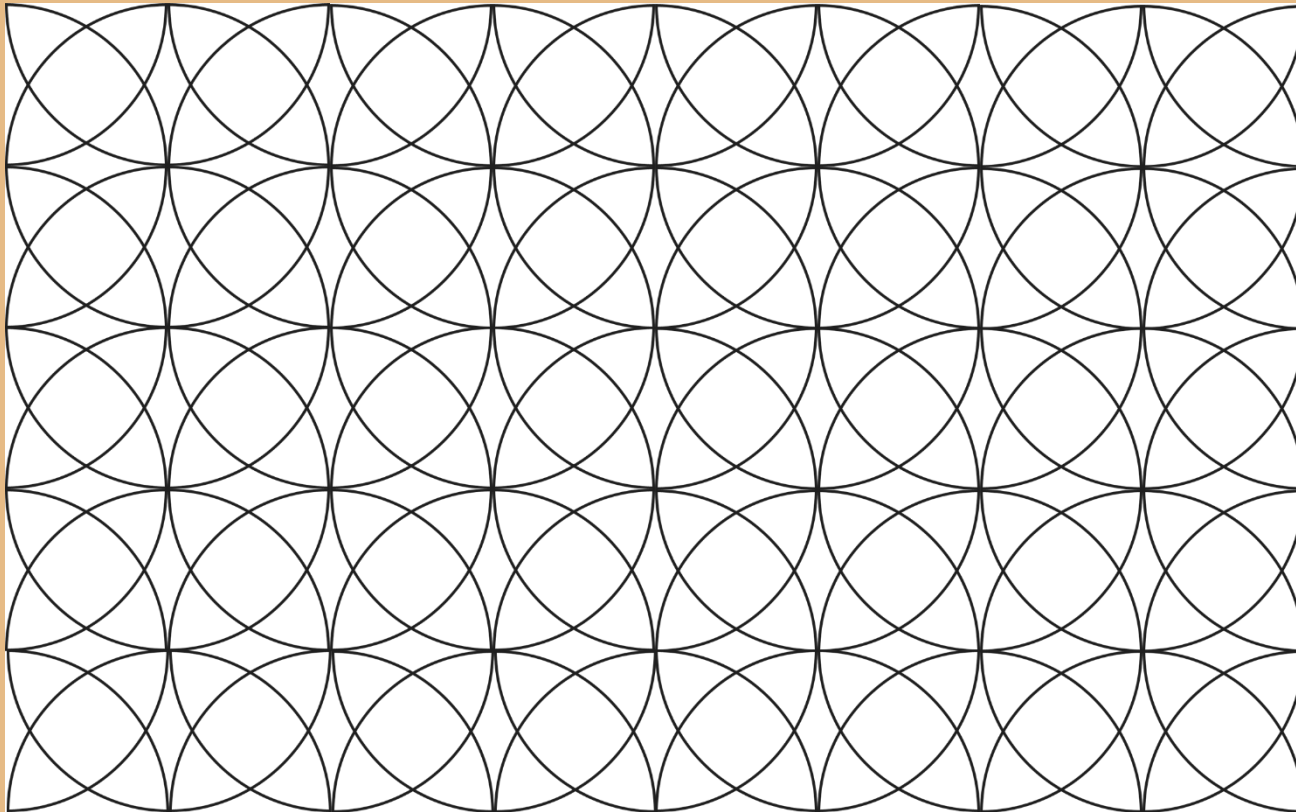


DRAWING MORE STRAIGHT LINES TO JOIN INTERSECTING LINES
GIVES US MORE POINTS TO USE.

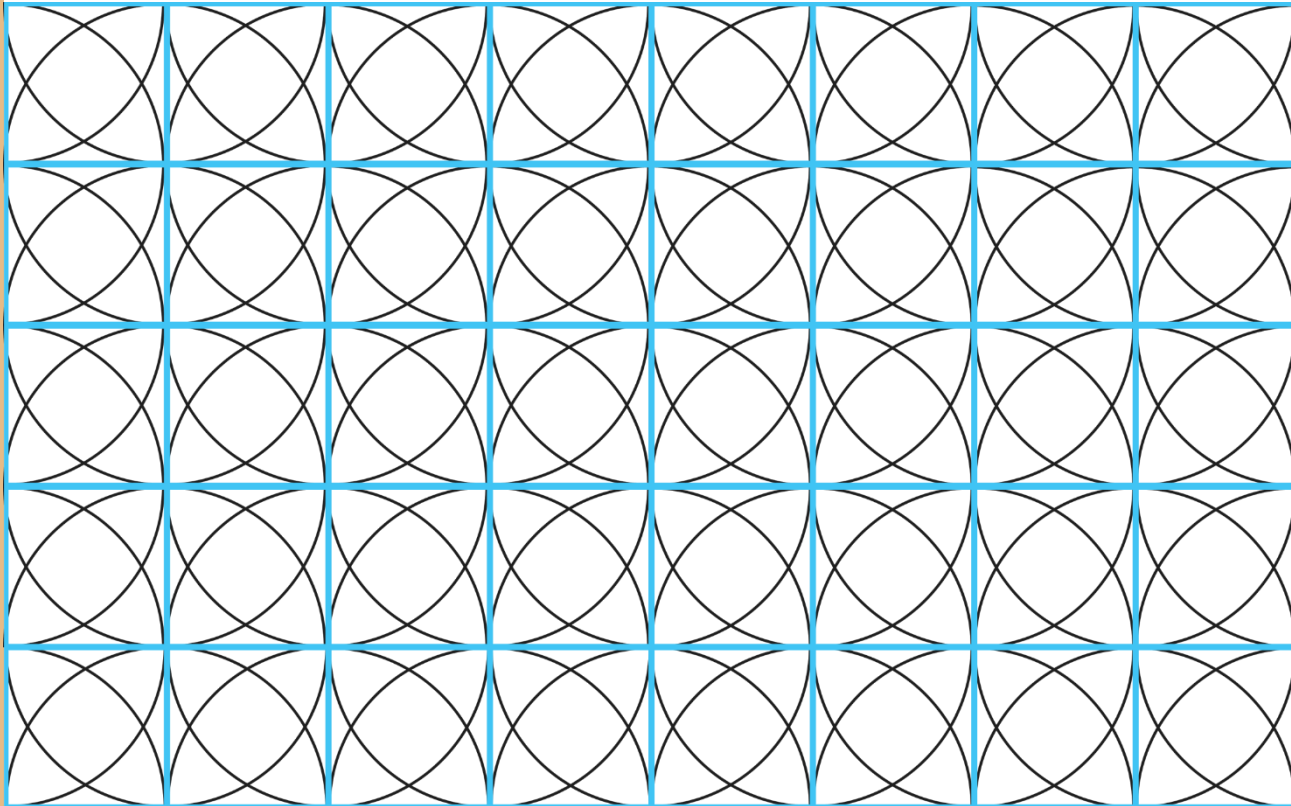




REPEATING THIS MOTIF MAKES IT POSSIBLE TO CREATE LARGER PATTERNS.



CONNECTING THE INTERSECTING LINES WILL GIVE YOU A SQUARE
GRID.



TASKS:

FOLLOW THE INSTRUCTIONS AND USE A RULER, COMPASS AND PENCIL TO DRAW YOUR OWN FIVE OR SEVEN OVERLAPPING CIRCLES. USING A RULER CONNECT INTERSECTING LINES THEN SHADE IN AREAS TO CREATE YOUR OWN MOTIF.

OR

USE A PRE-DRAWN GRID TO CREATE YOUR OWN MOTIFS THEN SELECT TWO OR THREE MOTIFS TO DESIGN A REPEATING PATTERN.

THE END