

# Creating Repeat Patterns

Step by Step Instructions  
with links to  
handouts and video

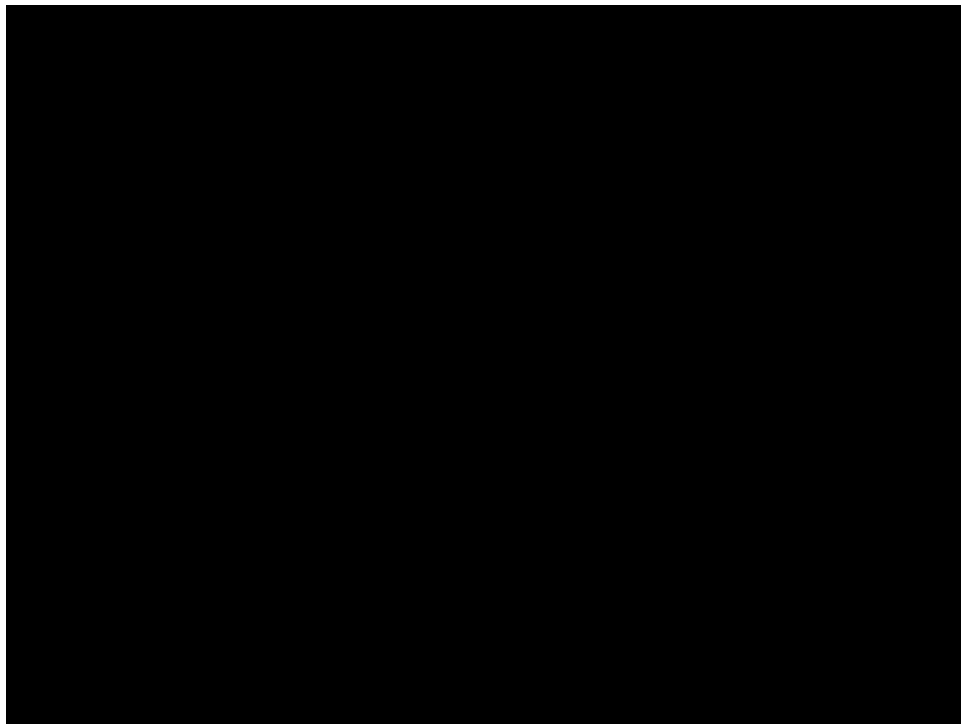
# Powerpoint Presentation of Repeat Pattern

Link to [Power Point](#)    Link to [Student Handout](#)

## Key terms

- Elements: Line, Shape, Space, Colour
- Principles: Balance, Harmony, Rhythm
- 3 Motifs: Geometric, Floral and Novelty
- Repeat Pattern Types: Straight, Half-Drop and Brick
- Other Layouts: Tessellations - diamond, hexagon, triangle; Medallion; Tossed
- Concentric

# Concentric Design



# Polysymetrics - using Geometry to create designs

Certain shapes like squares, triangles and hexagons can fit together to cover all the area of a sheet of paper without leaving any negative spaces.

These are known as “TESSELLATIONS”.

Each individual shape is known as a ‘TILE’.

Beautiful geometric patterns can be built up with tiles, in fact, this is the best way to make them. Certain types of tiles lead to more attractive patterns and these are usually the ones which have symmetry.

## Instructions:

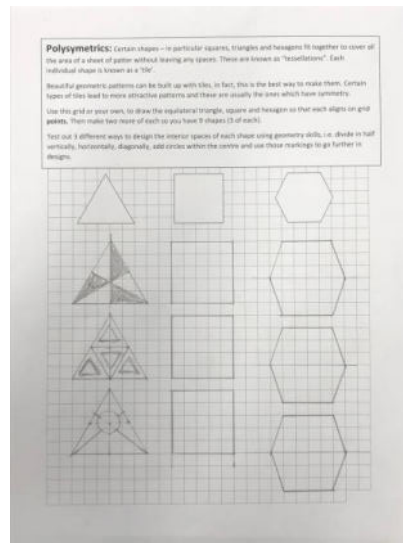
Use grid paper, or draw your own or use the paper provided, to draw 3 new equilateral triangles, 3 squares and 3 hexagons using the grid points.

Create 3 different designs in the interior spaces of each shape using geometry skills as follows for each shape:

- Concentric design
- Created by using points of the form itself
- Creates a new shape when it connects with its repeated neighbours

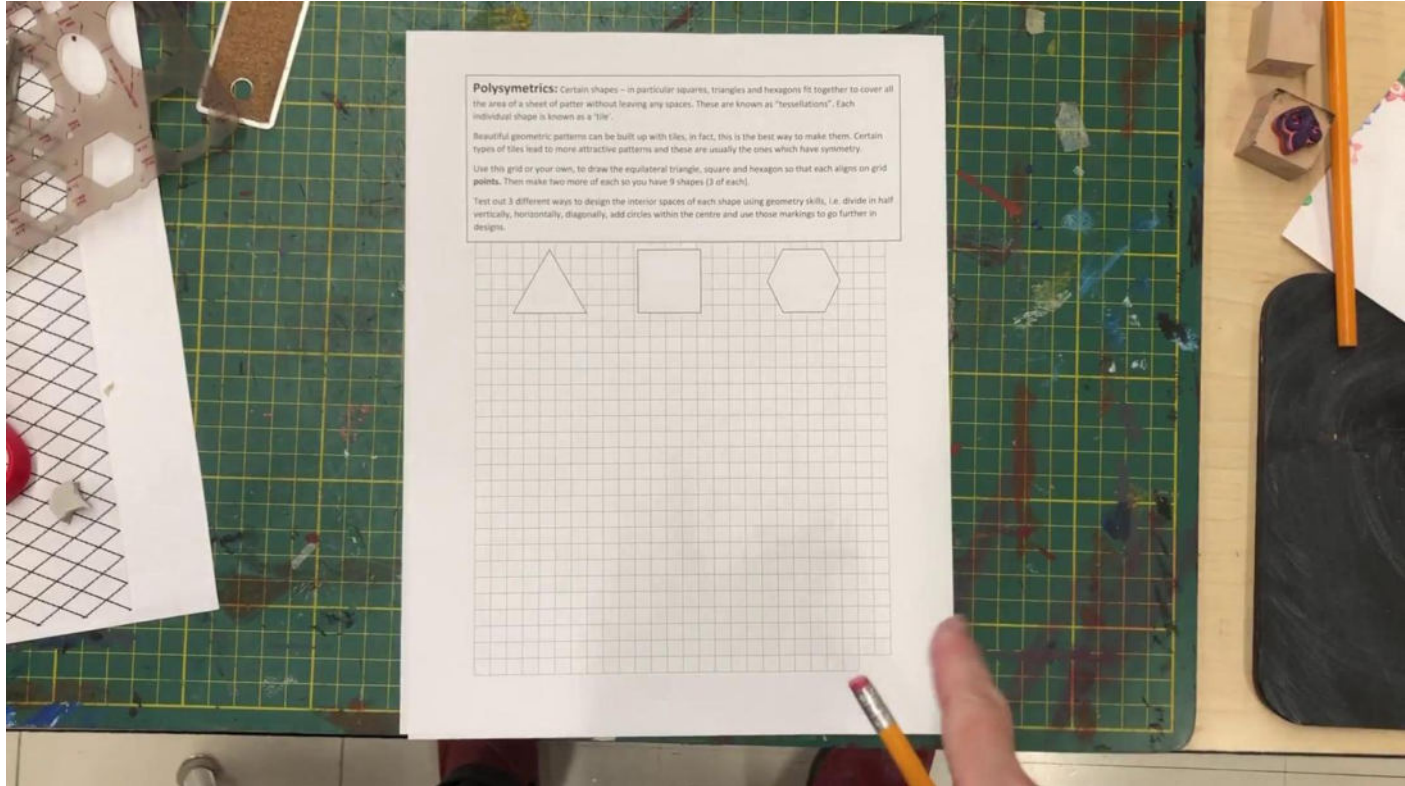
Complete your drawings.

Updated instructions [here](#).

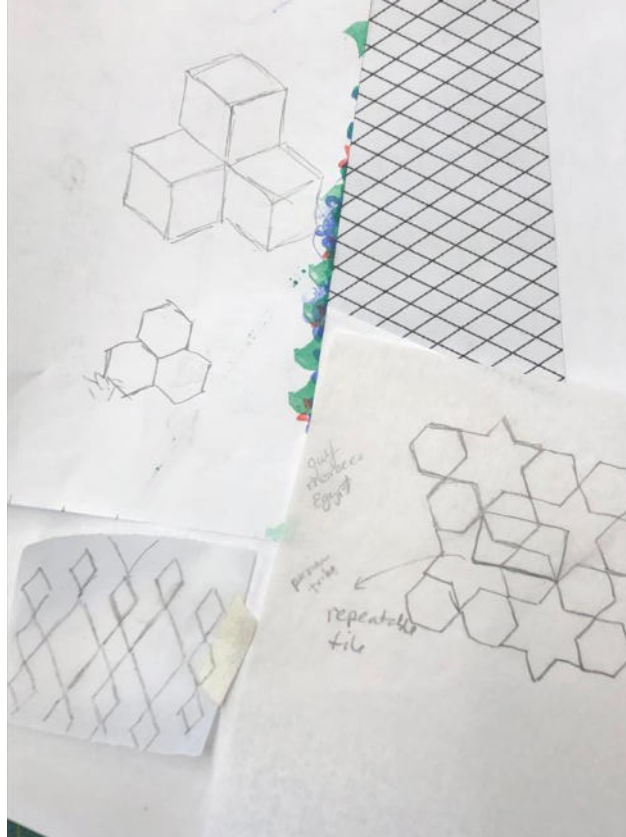
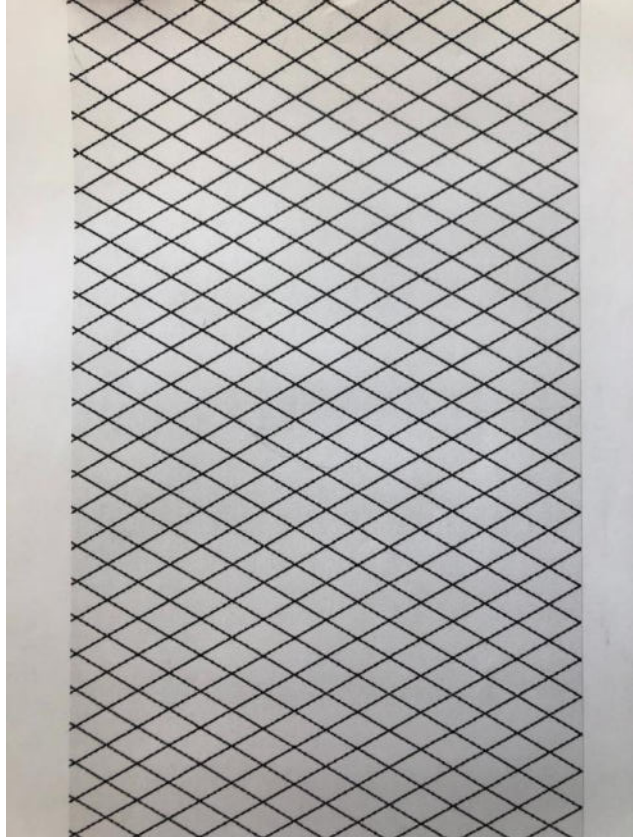


Example shown is not complete.

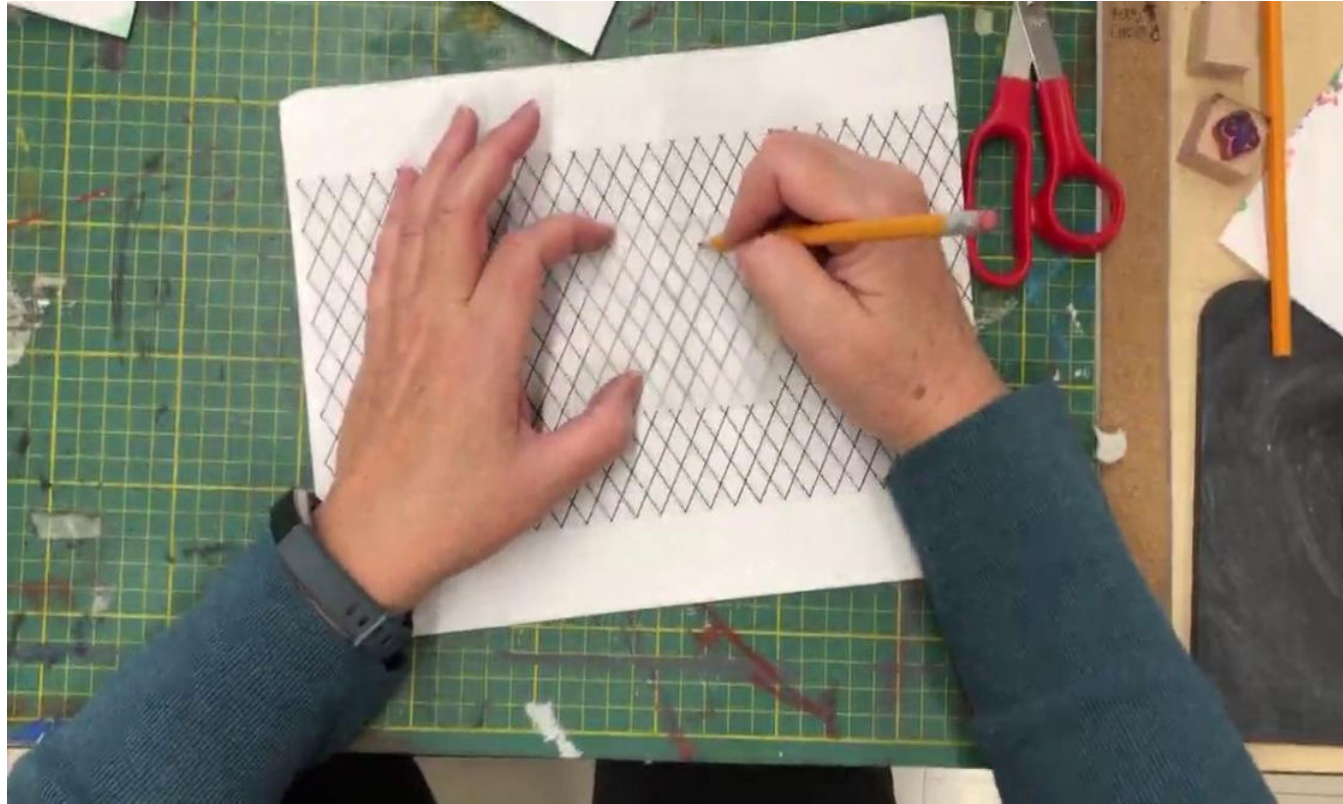
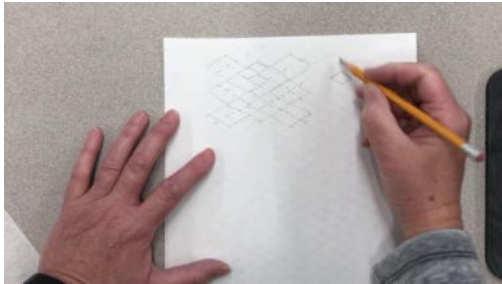
# Polysymetrics - using geometry to create designs



# Using a Diamond Grid



# Using a Diamond Grid



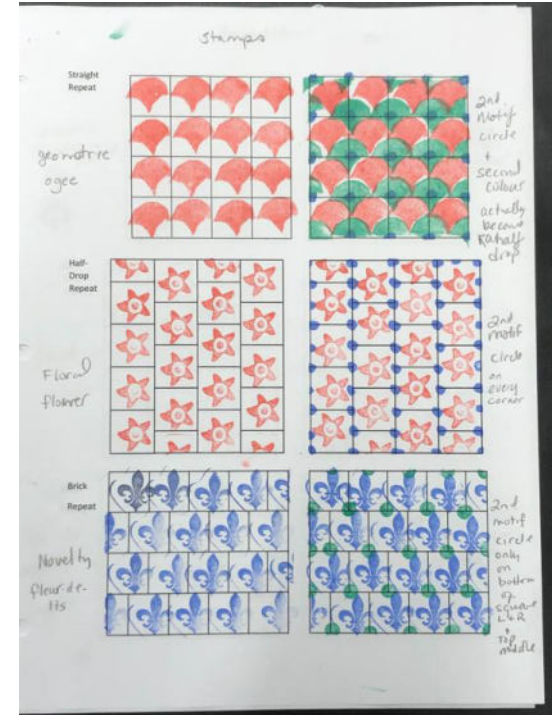
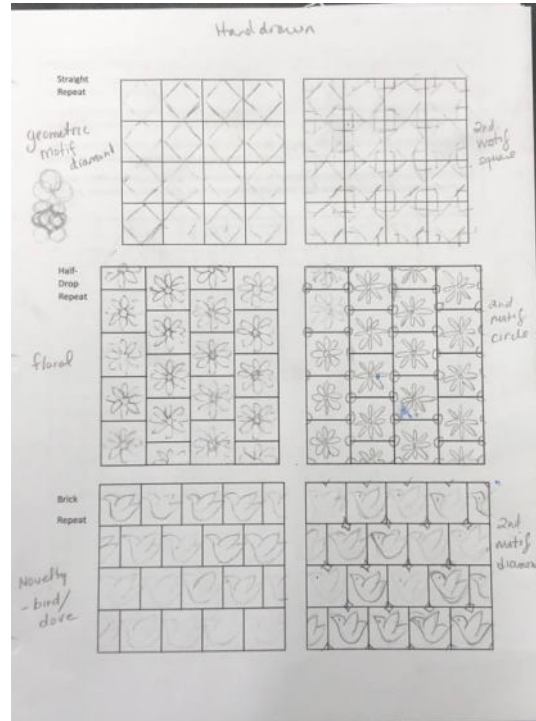


# Testing Out Repeat Patterns for Squares

Three motifs: geometric, floral and novelty

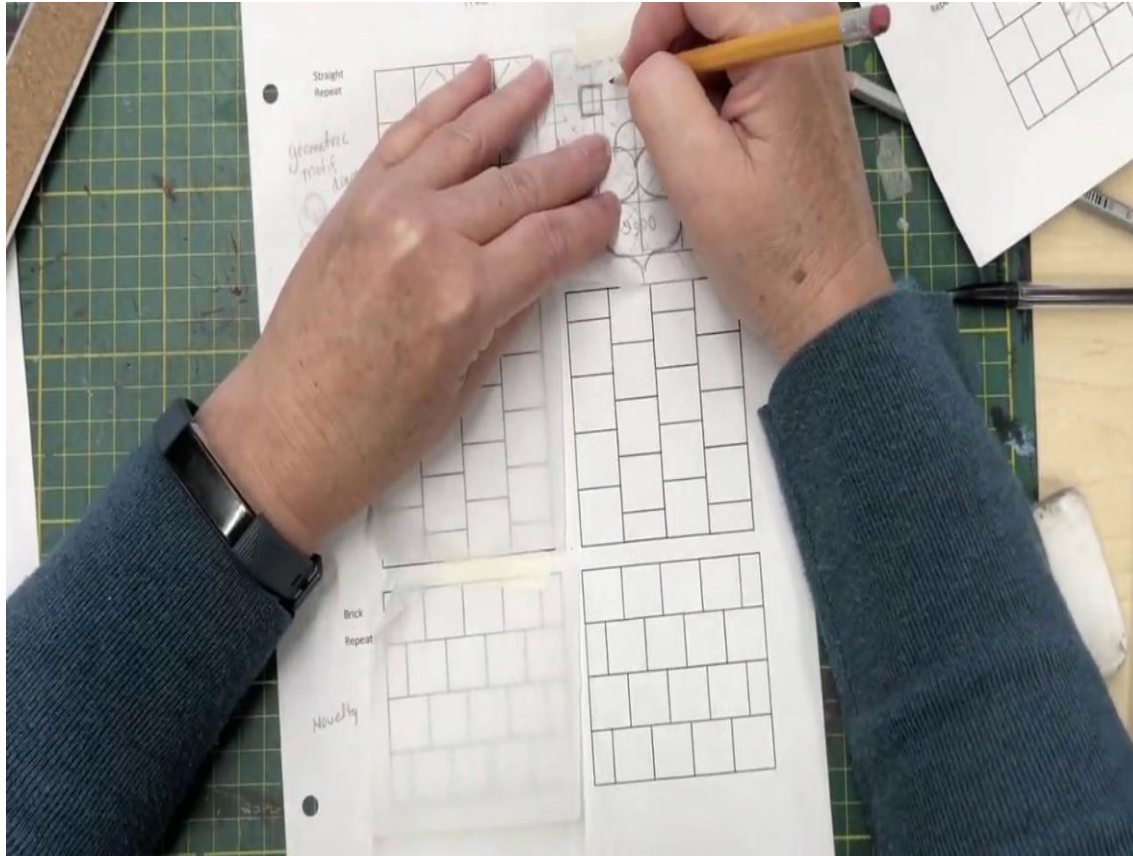
Repeatable Patterns:  
Straight, Half-Drop and  
Brick Updated  
instructions [here](#)

Videos on next slides

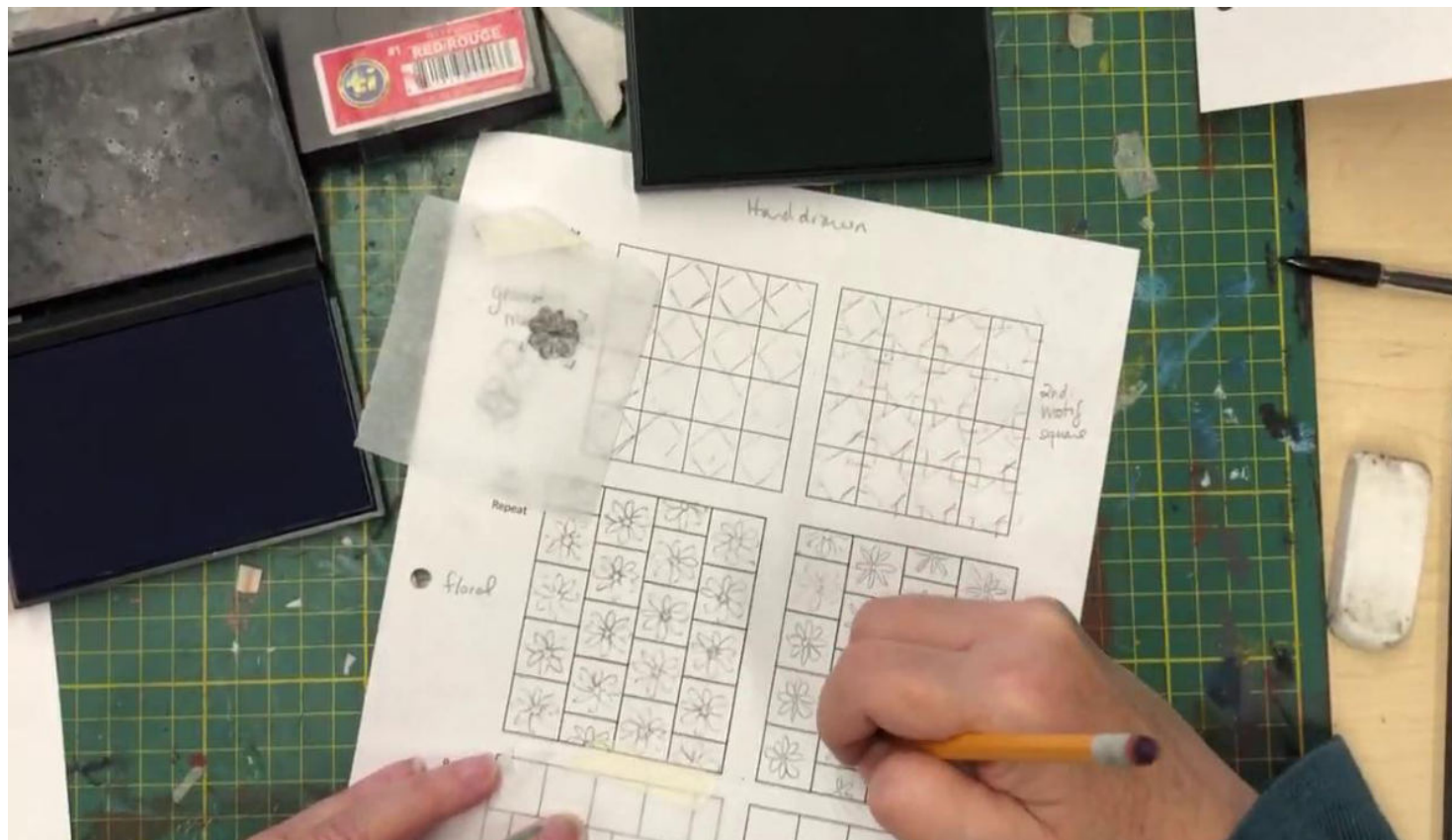




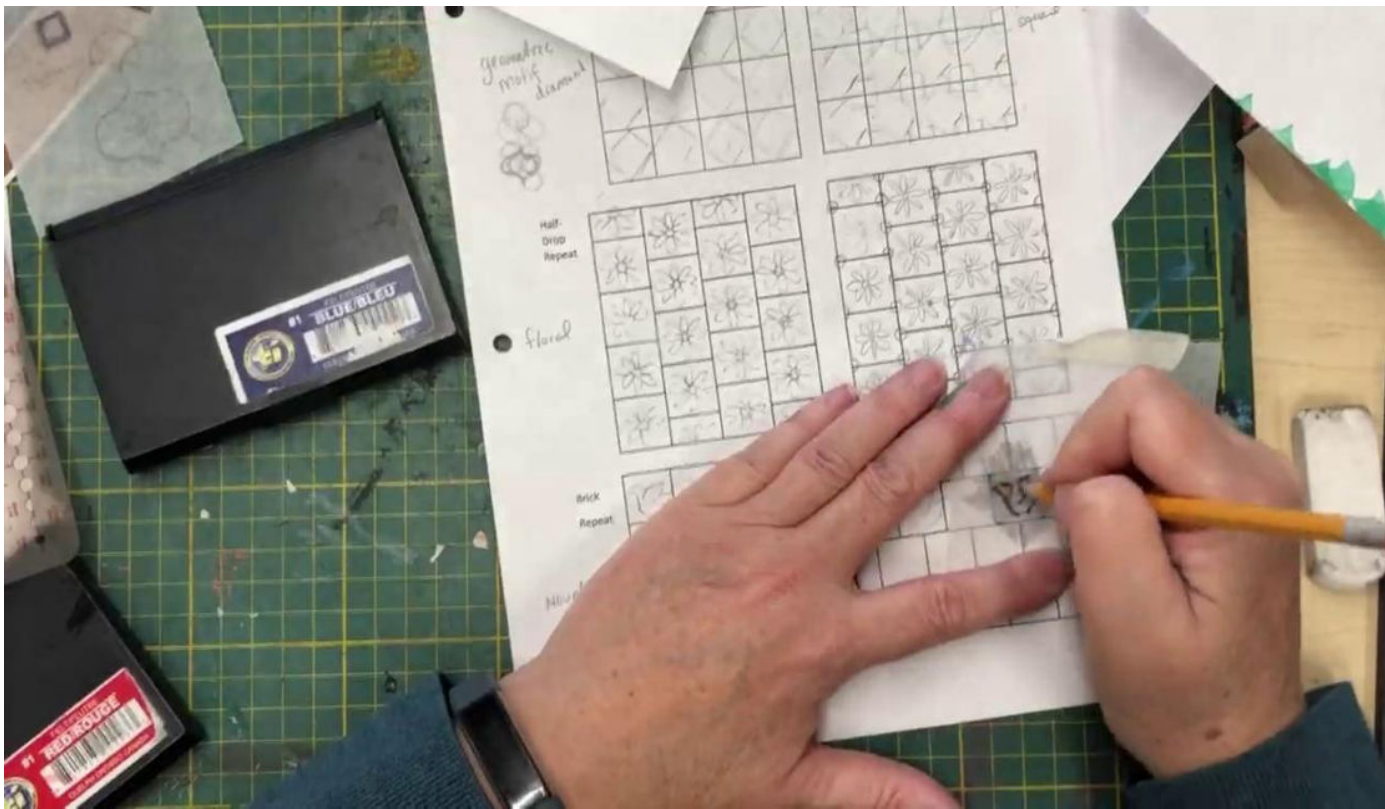
# Straight Repeat with Geometric Motif



# Half-Drop Repeat with Floral Motif



# Brick Repeat with Novelty Motif



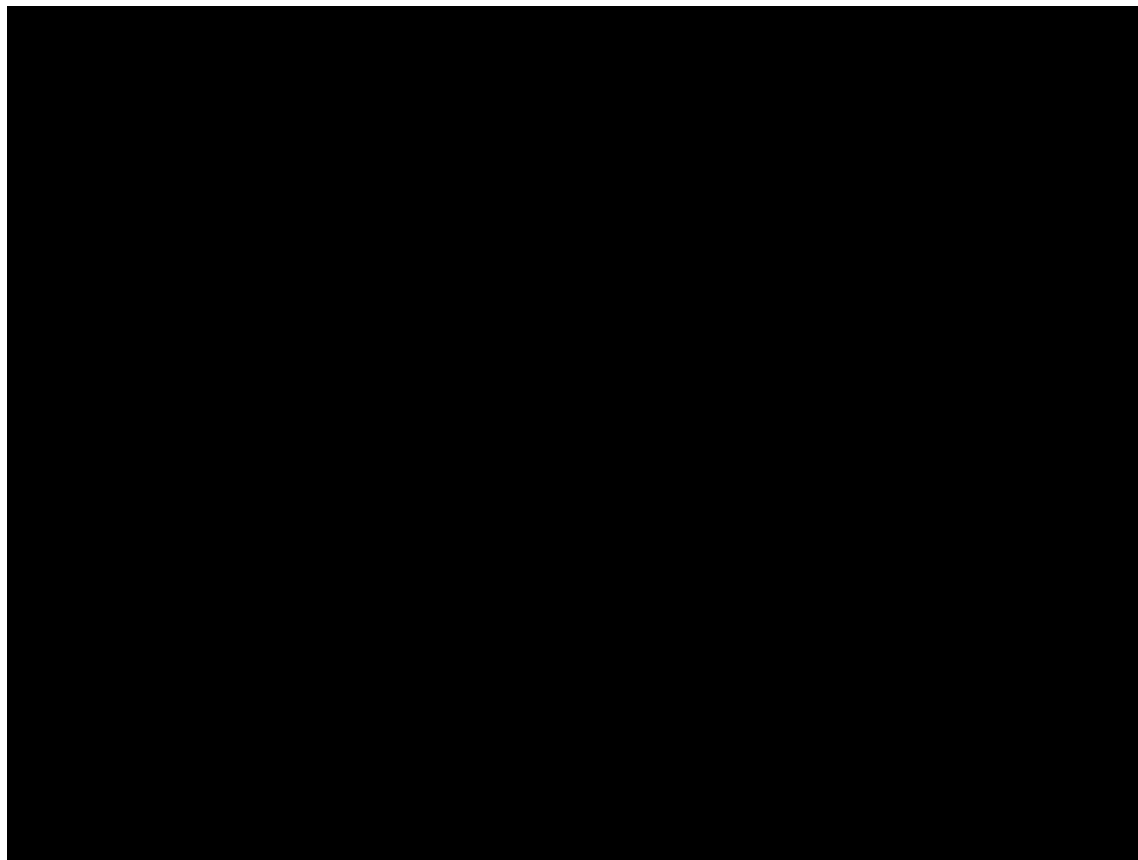
# How to Create Complex Repeat Patterns

Using Post-it-Notes and the Patternator App

Instructions for overall  
activity click [here](#)

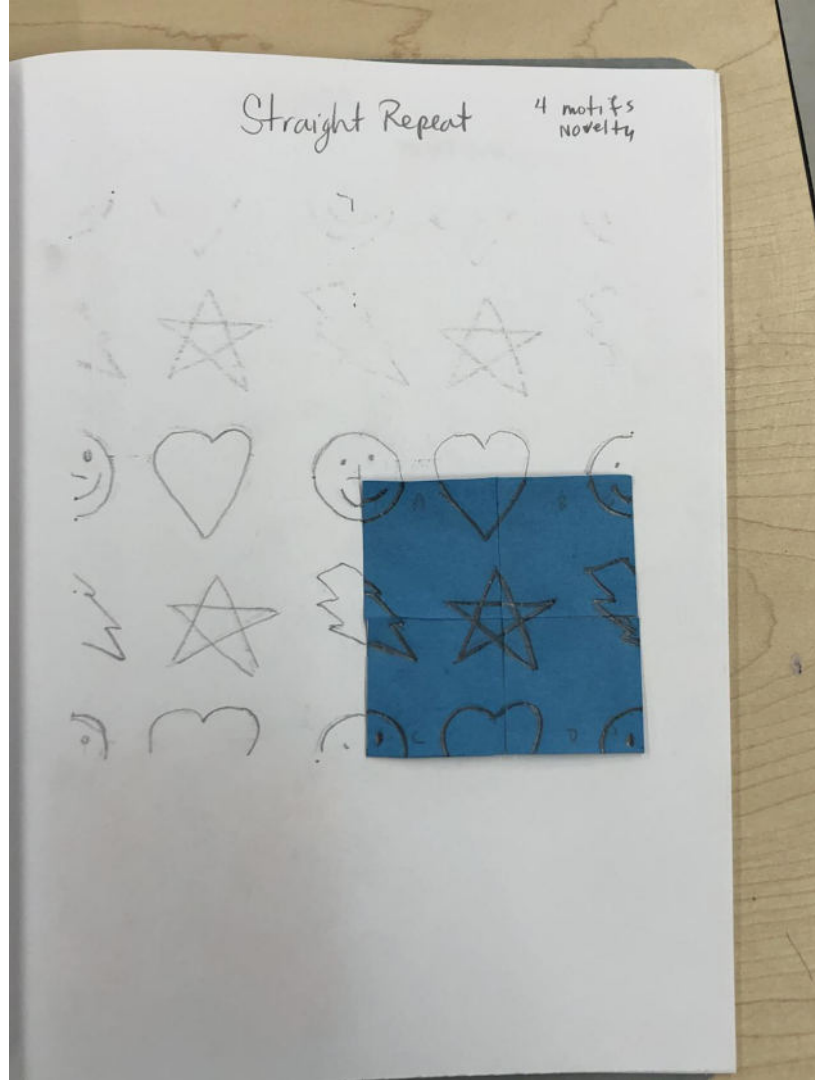
# Straight Repeat

Step by Step Instructions for Straight Repeat click [here](#)



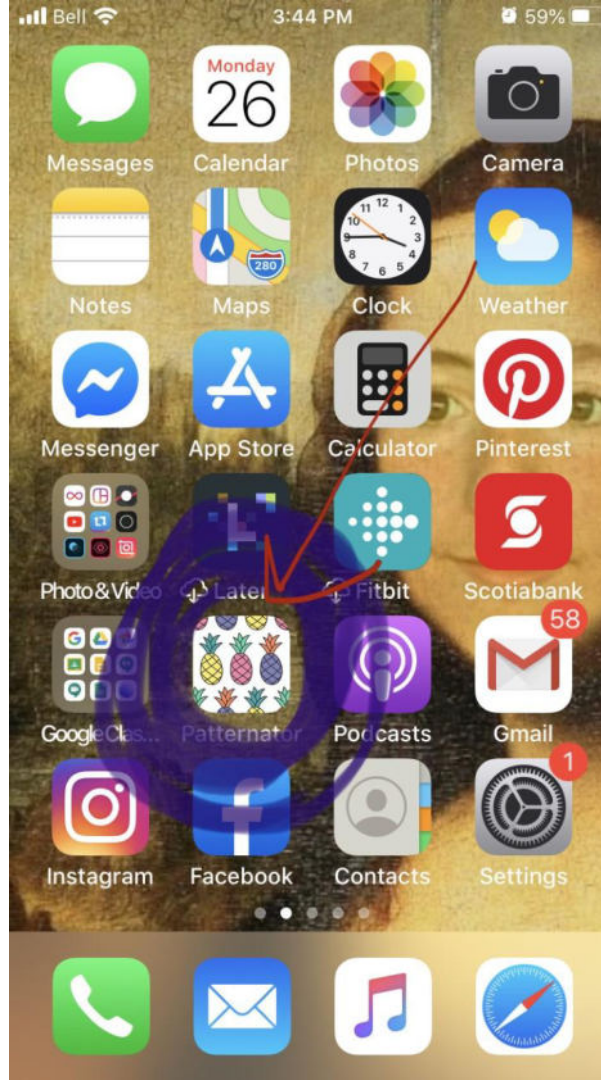
# Straight Repeat Proof by Transfer

Instructions for Straight Repeat  
[HERE](#)

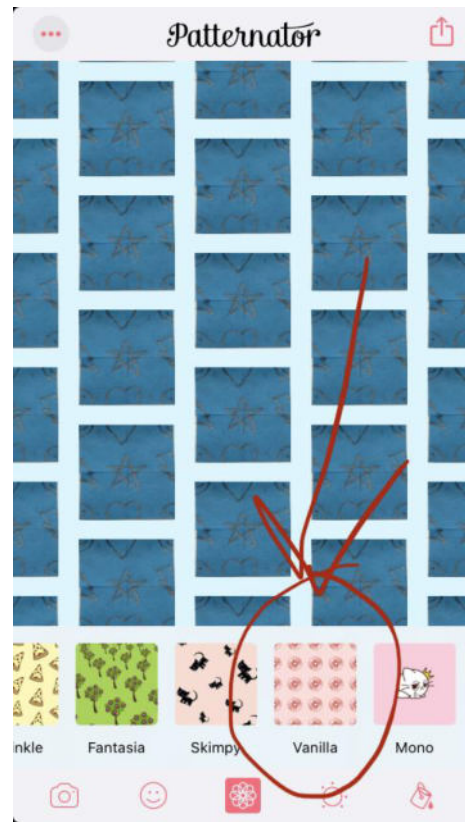
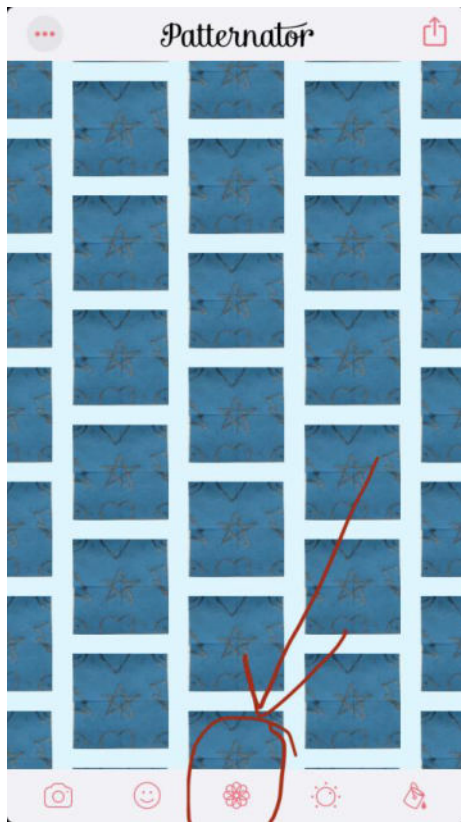
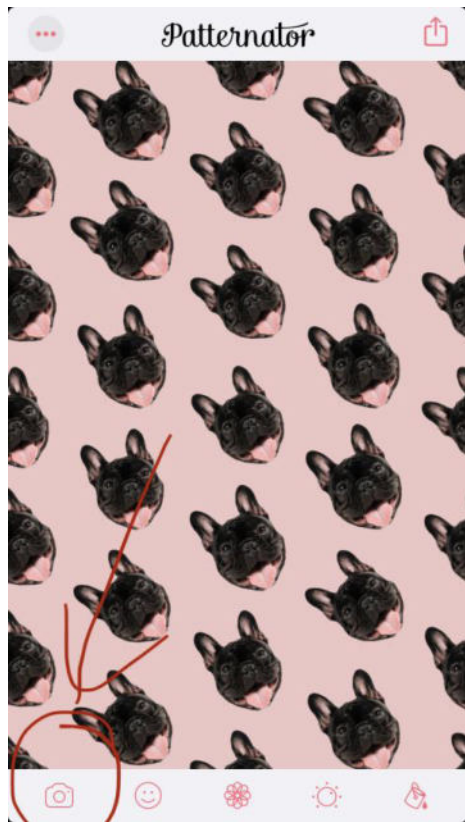




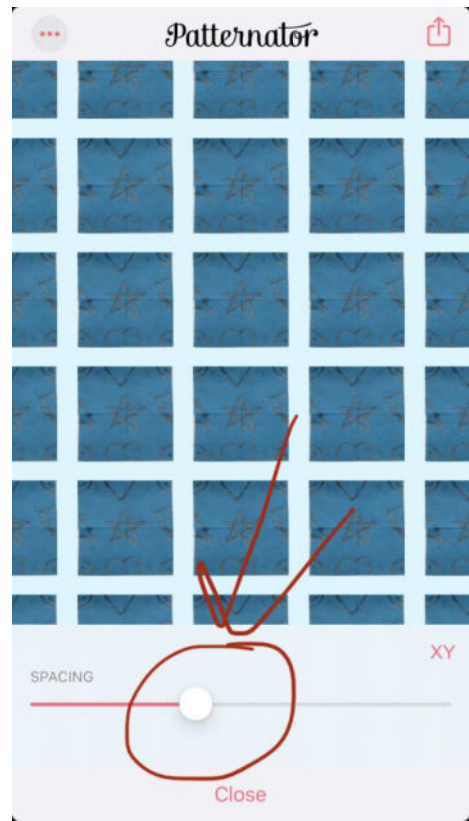
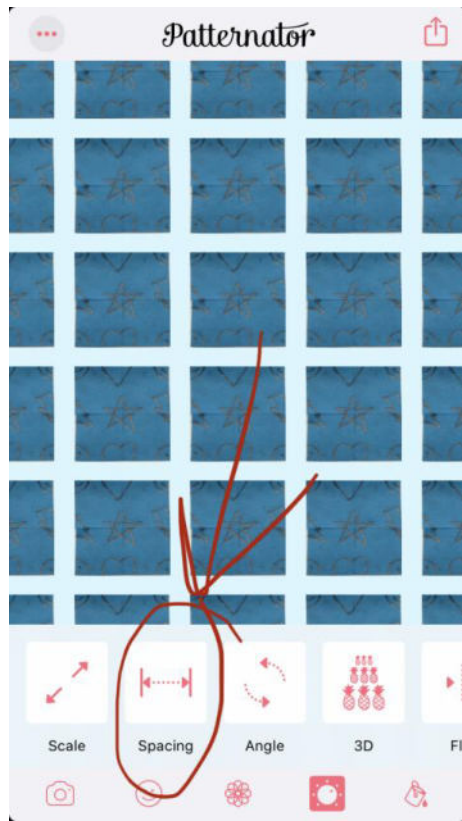
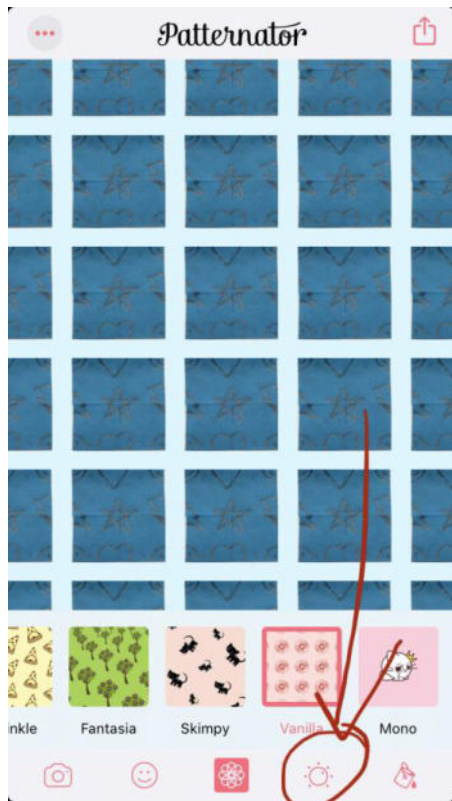
# Patternator app



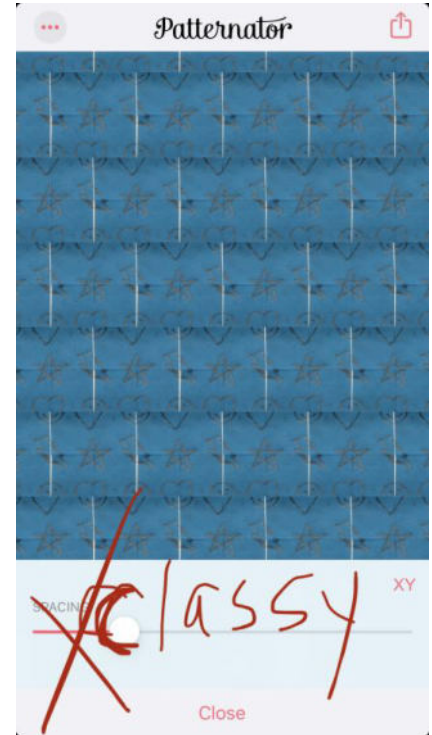
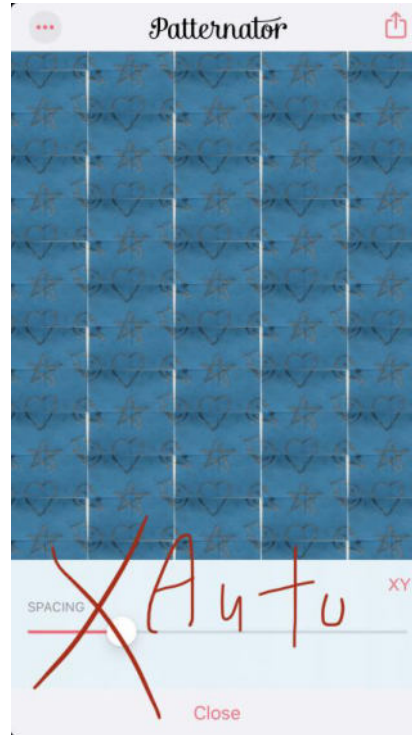
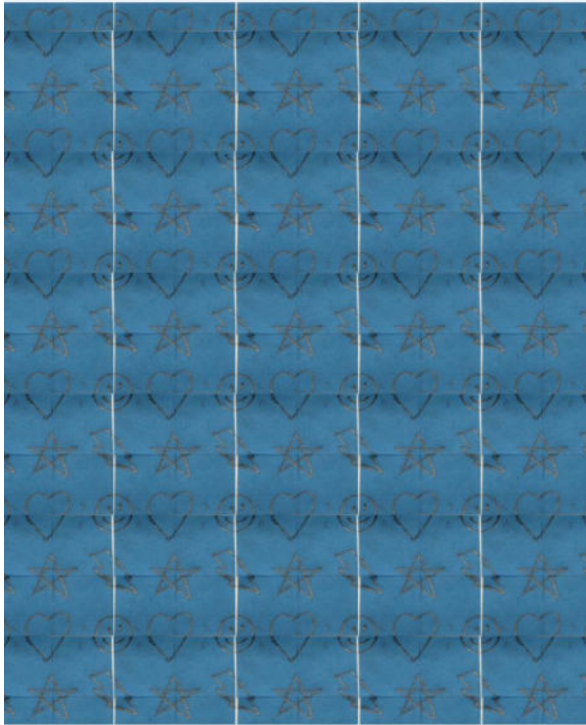
# Straight Repeat VANILLA



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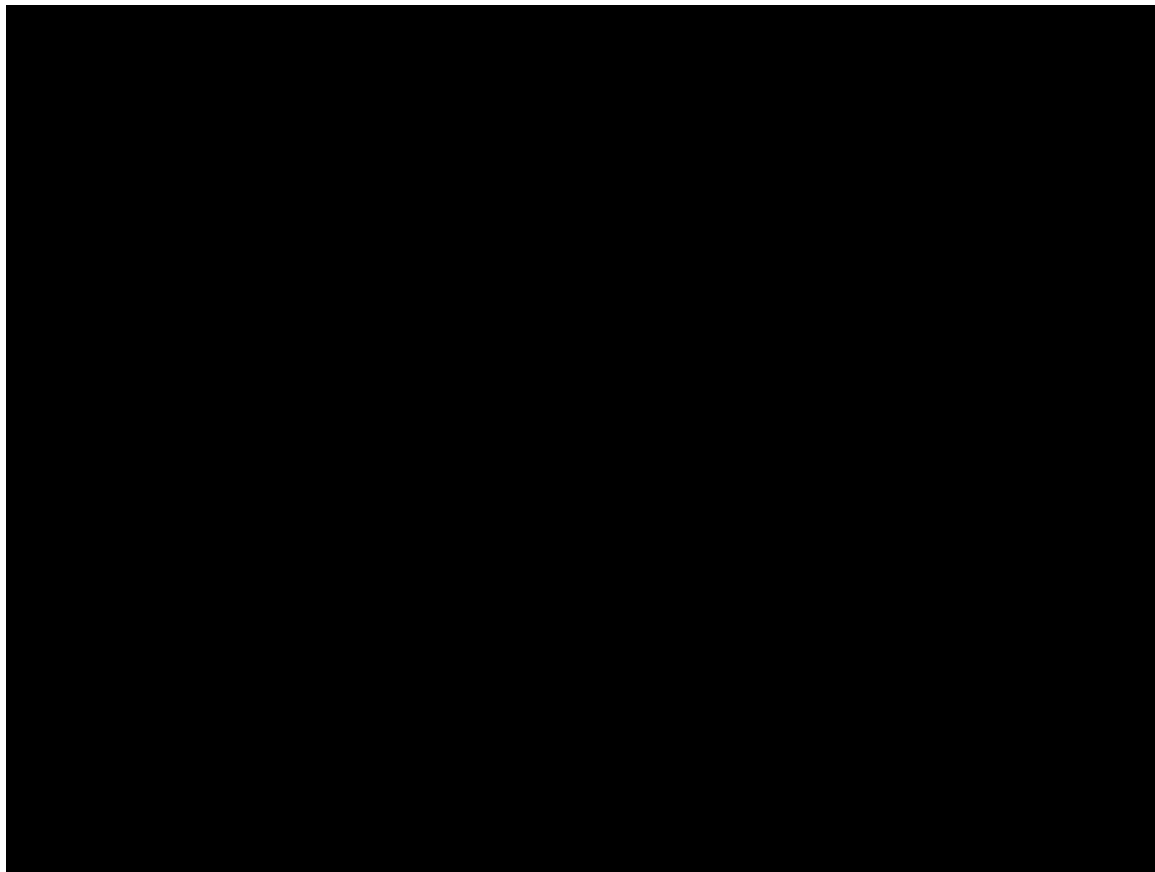


# Straight Repeat VANILLA



# Half Drop Repeat

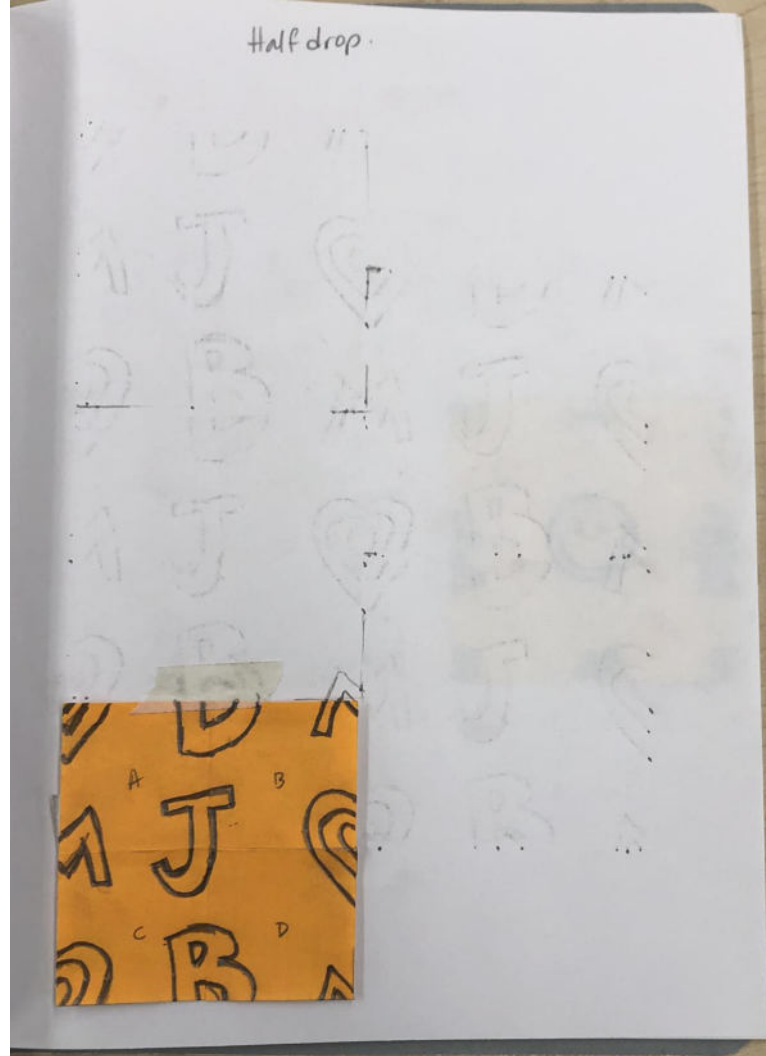
Step by Step Instructions for Half-Drop repeat click [Here](#)





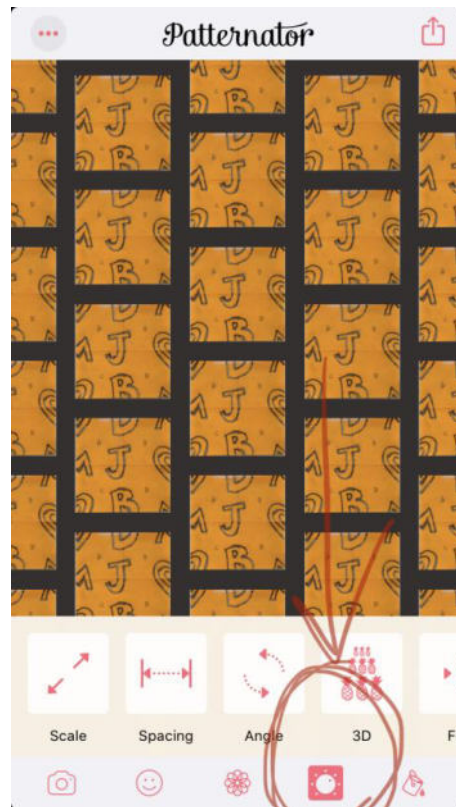
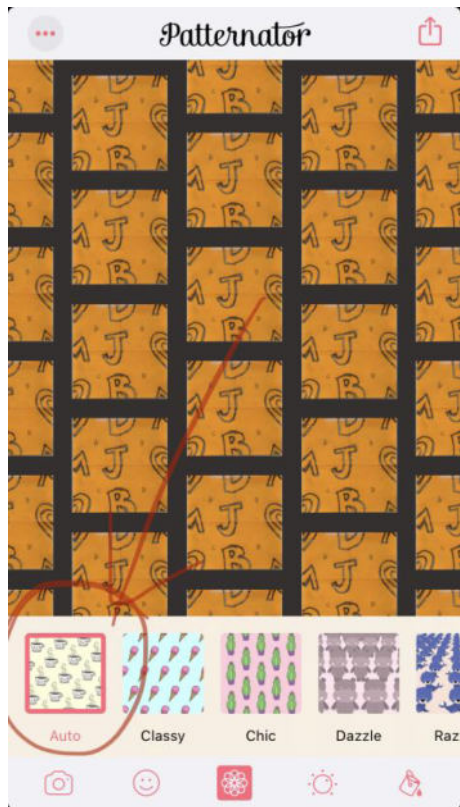
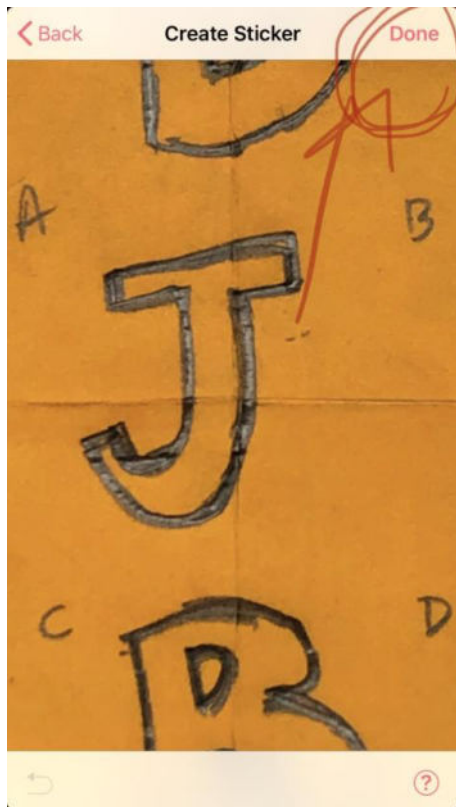
# Half Drop Repeat Proof by Transfer

Instructions for Half-Drop Repeat  
[HERE](#)

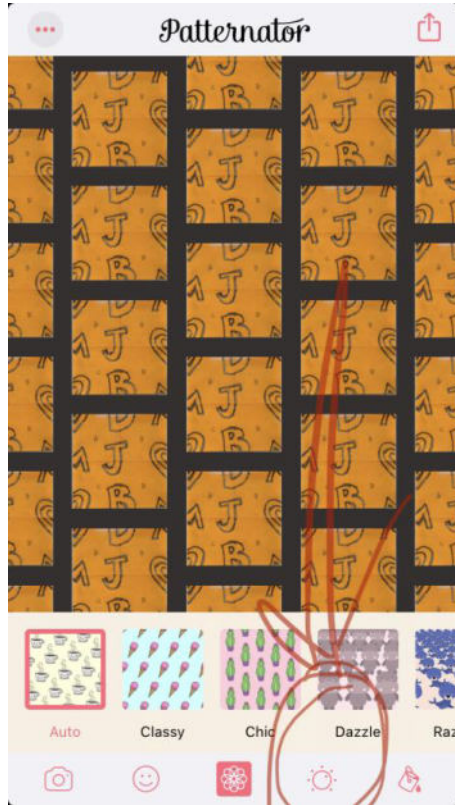
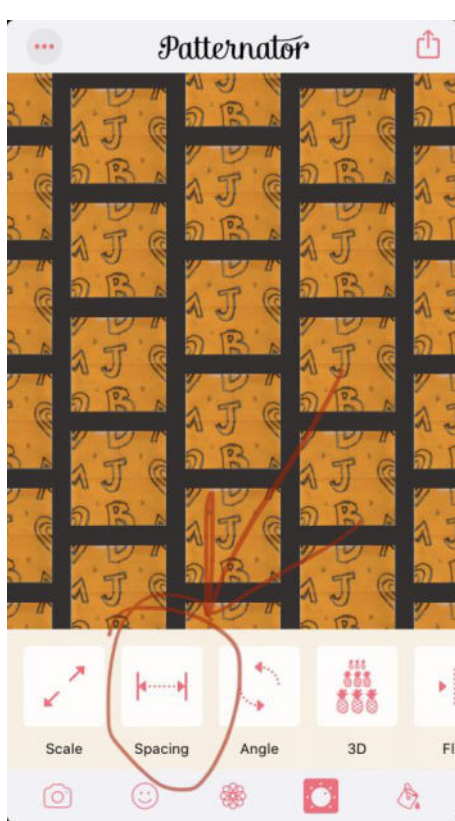




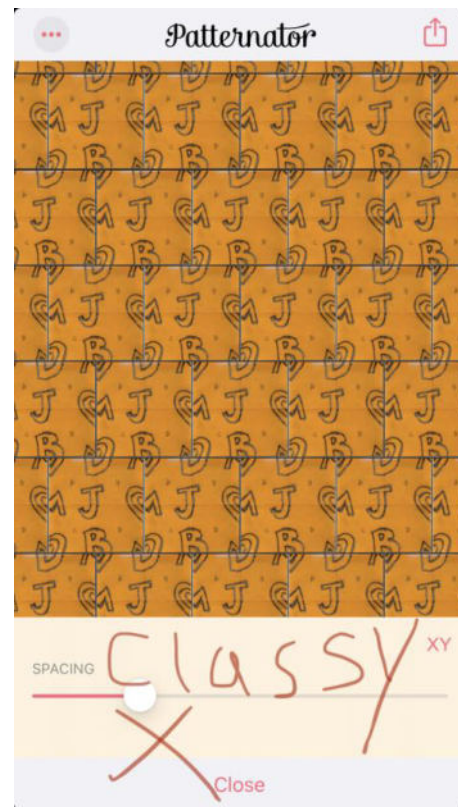
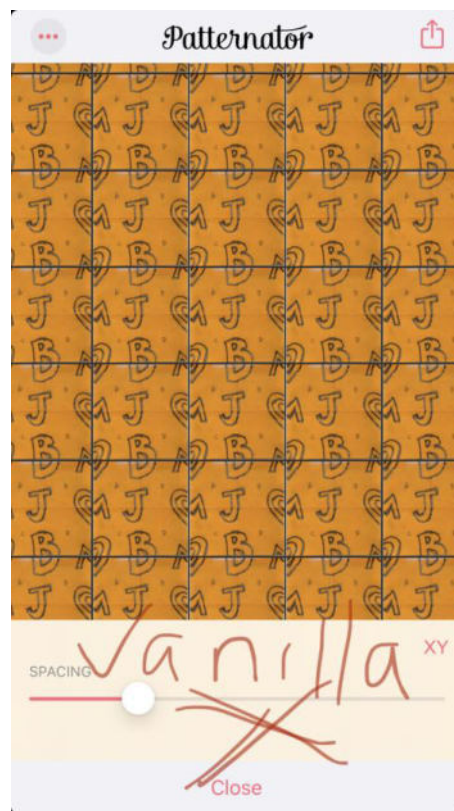
# Half Drop Repeat AUTO



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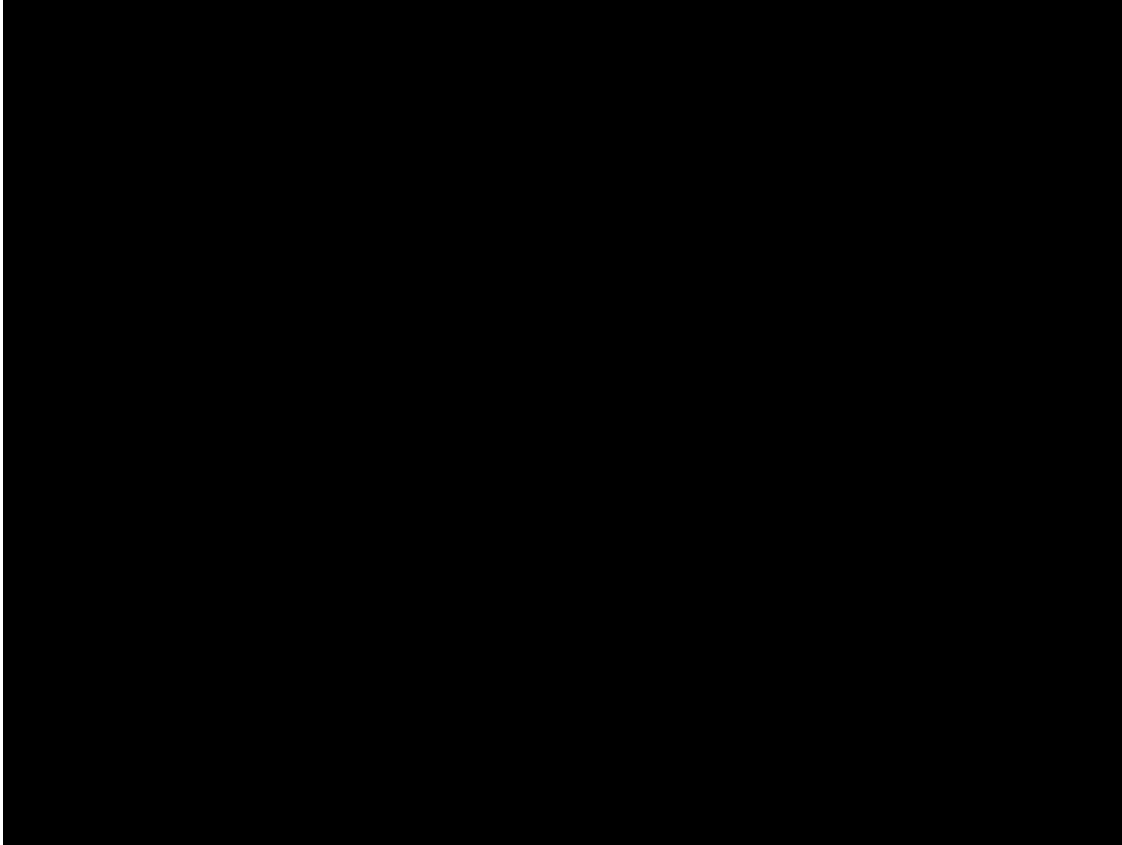


# Half Drop Repeat AUTO



# Brick Repeat

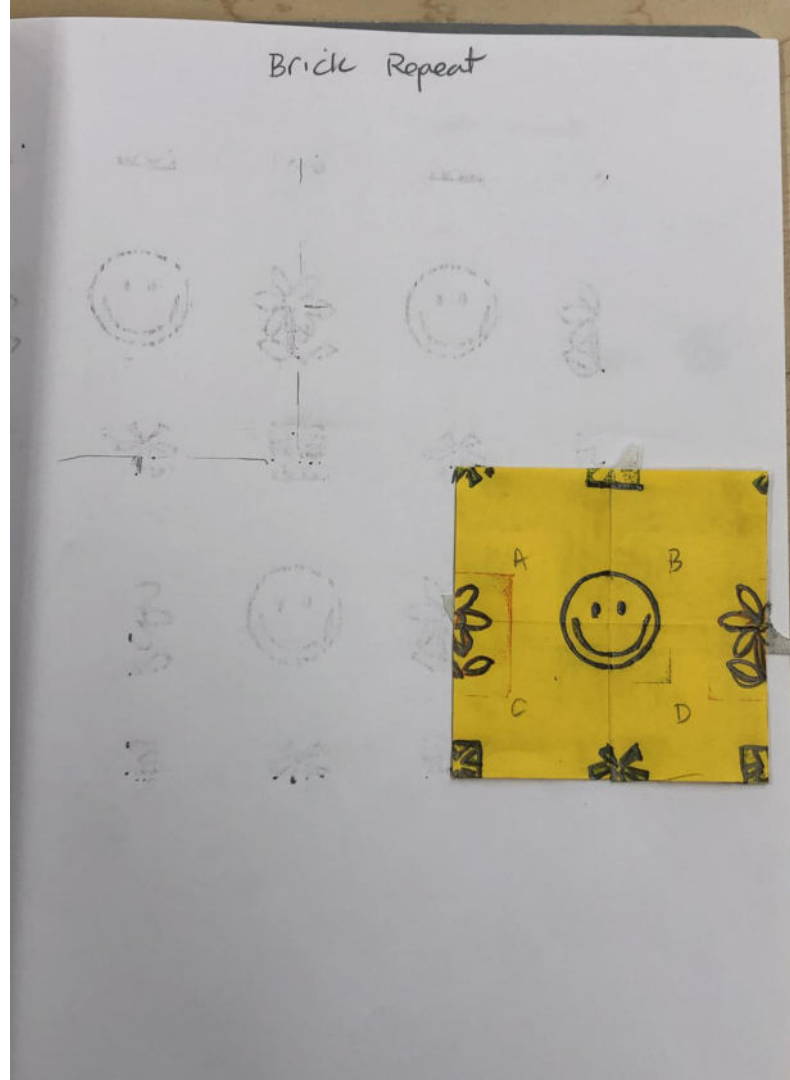
Step by Step Instructions for Brick Repeat click [Here](#)



# Brick Repeat

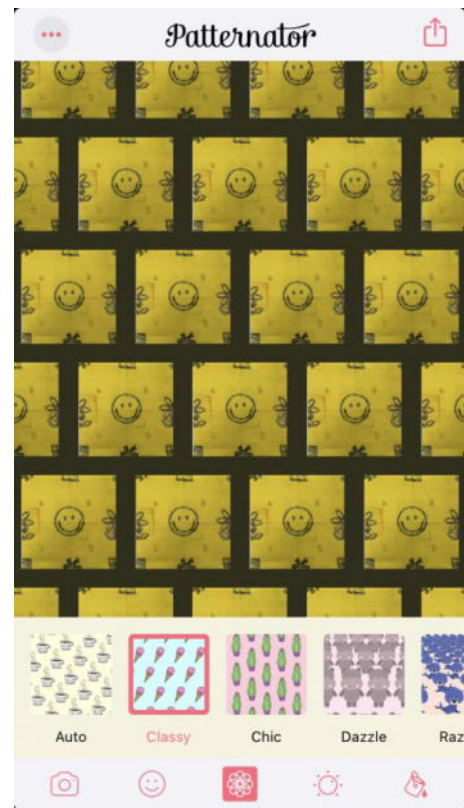
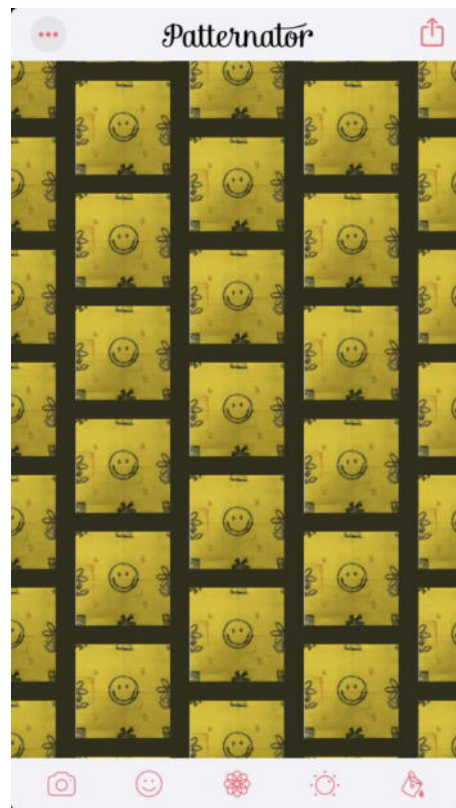
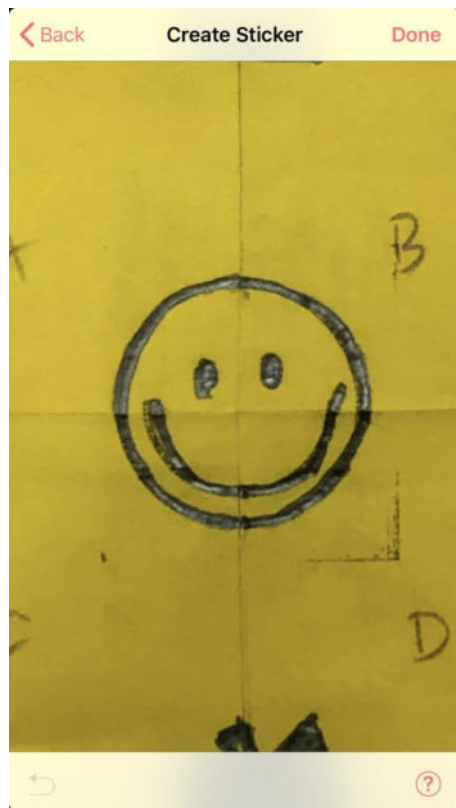
Proof by Transfer

Instructions for Brick Repeat  
[HERE](#)





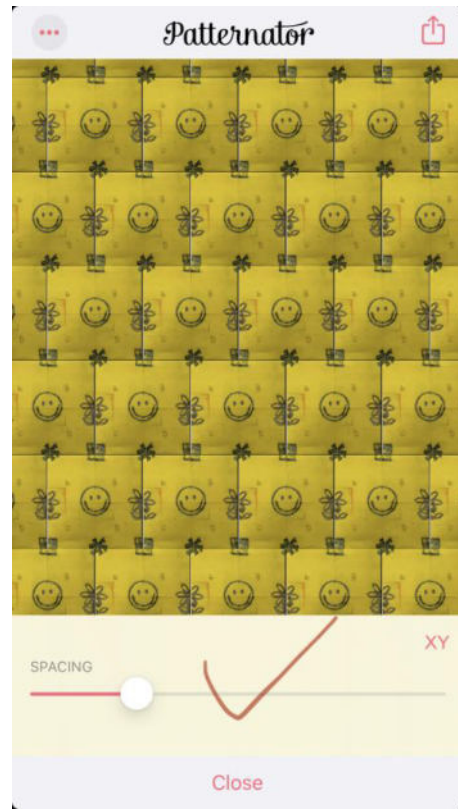
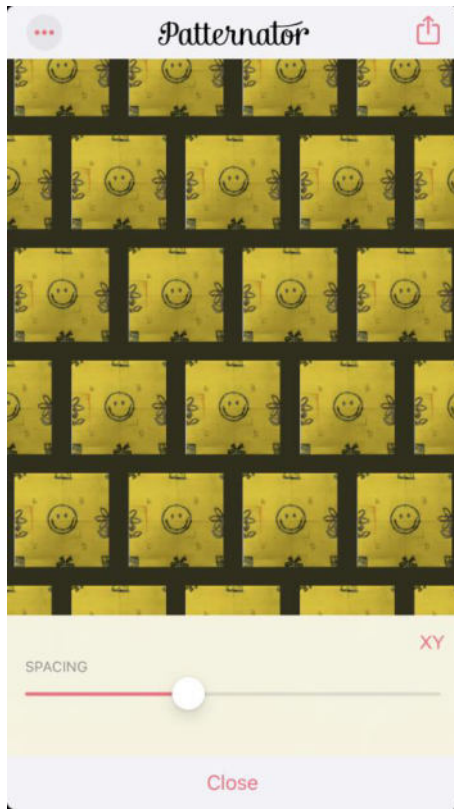
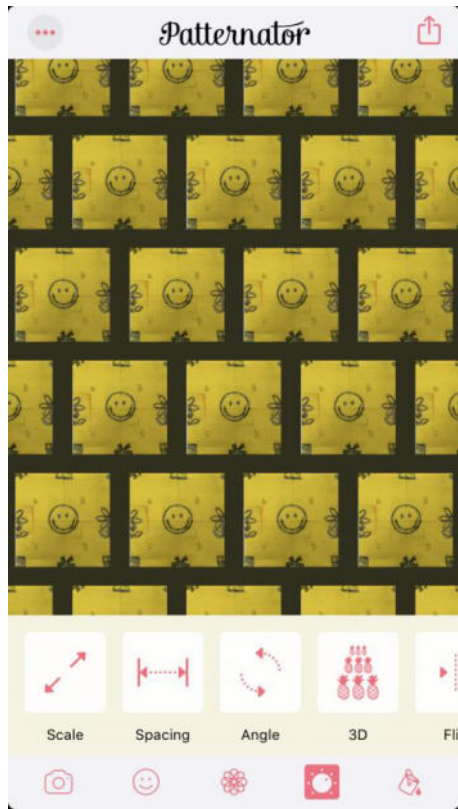
# Brick Repeat CLASSY





# Brick Repeat

CLASSY



# Brick Repeat

CLASSY

