

## PATTERNED PETALS

*Explore different colors and patterns nature has to offer by looking at different flowers, and create your own patterns with flowers.*

### Big Idea

Children will be able to identify what a pattern is and use flowers to create their own patterns.

### Standards

IELDS 8.A.ECb Recognize, duplicate, extend, and create simple patterns in various formats.	Students will recognize, create and extend patterns using flowers.
CCSS.MATH.CONTENT.4.OA.C.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself.	Students will generate patterns using the flower shapes, colors, and quantities.
IELDS 8.B.ECa With adult assistance, represent a simple repeating pattern by verbally describing it or by modeling it with objects or actions.	Students will verbally describe their patterns, show them with objects, or act them out with actions.

### Materials

- Book: Growing Patterns by Sarah C. Campbell or Swirl by Swirl by Joyce Sidman
- Trays – “garden box”
- Flowers (real or fake)
- Flower petal cut-outs
- Green Pipe Cleaners

### Setup

Play trays with different flowers on them on the carpet or table. Have an AB pattern on one of the trays to start.

### Directions

1. Today we will begin by reading a book Growing Patterns or Swirl by Swirl. One the books have been finished review the different patterns they may have seen in the book. Make sure to make an emphasis that the patterns they saw in the book are patterns that can be seen in real life.
2. Today we will be gardeners working on patterns. Here is my garden box. I have created a pattern using my flowers. Can you tell me the pattern I created? Allow children some time to discuss the pattern before you provide the answer. What color should I add next?

3. Now it's your turn! Children will be able to create their own patterns using the flowers and trays. Remind children that a pattern repeats.
4. Allow children to share their pattern by having them say out loud the colors and the pattern they chose, for example: "Purple, purple, white, purple, purple white"

\*For the older children: Introduce additional types of patterns such as a growing pattern or radial patterns.

*Investigation Questions: Can you tell me about your pattern? How do you know it's a pattern? What else could you add to your pattern? Is there another pattern you could make with your flowers? Where else do you see patterns?*