PATTERNS & SHAPES

Hands-On Activities and Games
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ABOUT THIS BOOK

Math manipulatives are a very important creative tool in helping children improve their understanding of math. Not only can manipulatives be used effectively to introduce new concepts, but they are also important in reinforcing acquired skills.

This book covers a wide range of activities that can be used by children of many different ability levels. It is important to allow them time to explore patterning and to study the relationships of shape and color in their designs.

Your child will enjoy making his/her own patterns as well as solving the puzzles presented in this book. The activities can be extended to include reinforce counting, number operations, fractions, descriptive language and art. Given the freedom to explore ideas, your child will become familiar with formal concepts in an intuitive way, long before he’s able to formulate and apply these discoveries.

The Pattern Blocks and activities in this book range from very simple to somewhat complex.

USING THE BOOK

Your set of Pattern Blocks consists of six plastic shapes in different colors.

![Pattern Blocks](image)

When first introducing the activities to your child, give them the exact number of Pattern Blocks needed to complete the picture. Once your child becomes familiar with the materials and activities, you can help your child sort out the correct Pattern Block combinations needed for a given activity page.

As a challenge, ask your child to estimate the number of Pattern Blocks that will be needed to complete a given activity. Then solve the puzzles, and record the actual numbers next to the original predictions. Be sure to discuss the results together.
Yellow Hexagon
Orange Square
Green Triangle
Tan Rhombus
Blue Parallelogram
Red Trapezoid