



## About the Mathematics in This Unit (page 1 of 2)

Dear Family,

Our class is beginning a new mathematics unit called *Color, Shape, and Number Patterns*. Mathematics has been called the “science of patterns.” In this unit, students make, describe, and extend patterns.

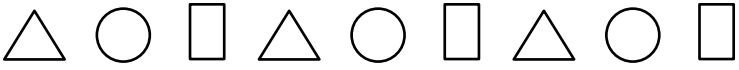
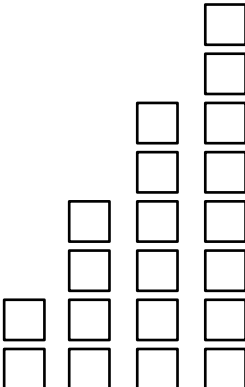
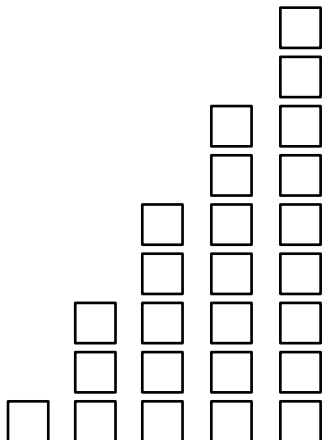
Throughout this unit we will be working toward these goals:

BENCHMARKS/ GOALS	EXAMPLES
Construct, describe, and extend a repeating pattern with the structure AB, ABC, AAB, or ABB.	
Identify the unit of a repeating pattern for patterns with the structure AB or ABC.	<p>What is the unit, or repeating part, in this pattern?</p>
Describe how various AB or ABC repeating patterns are alike (e.g. how is a red-blue pattern like a yellow-green pattern?).	<p>What is the same about these two patterns?</p>

(continued)



**About the Mathematics in This Unit** (page 2 of 2)

BENCHMARKS/ GOALS	EXAMPLES	
<p>Determine what comes several steps beyond the visible part of an AB, ABC, AAB, or ABB repeating pattern.</p>	<div style="text-align: center;">  </div> <div style="text-align: center;"> <p>1    2    3    4    5    6    7    8    9</p> </div> <p>If this pattern continues in the same way, what number will be under the next circle?</p> <p>What will the 12th shape be?</p>	
<p>Construct, extend, and describe a pattern that has a constant increase for the sequences                      1, 3, 5, ... ;                      2, 4, 6, ... ;                      1, 4, 7, ... ;                      2, 5, 8, ... ; and                      3, 6, 9 ...                      through counting and building.</p>	<div style="text-align: center;">  </div> <p>2    4    6    8 ...</p>	<div style="text-align: center;">  </div> <p>1    3    5    7    9 ...</p>

Please look for more information and activities about *Color, Shape, and Number Patterns* that will be sent home in the coming weeks. I look forward to sharing our work in patterns with your child and with you.