



Grade 3 Patterning and Algebra

Unit TWO

Name:_	

Ontario Mathematics Curriculum Grades 1 to 8, 1997

Strand: Patterning and Algebra

Grade: 3

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Developed by T. Tasker

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Overall Expectations:

- recognize that patterning results from repetition
- identify, extend, and create linear and non-linear geometric patterns, number and measurement patterns, and patterns in their environment
- create charts to display patterns
- identify relationships between and among patterns
- * All specific expectations are covered by this unit with the exception of: P7:use environmental data to create models of patterns (eg. Monday sunny, Tuesday rainy) and display the patterns on a chart which is covered in the daily mathematical routines.



learned	Draw one of your favourite learning moments.
about patterns	today.
Mer	lin has a Problem!



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Patterning & Algebra Story Planner for Patterning Picture Book



The pattern in m	y story will be:		
WHO are the characters?	WHAT are they doing?	WHERE are they?	WHEN is it?
The Problem:		The solution:	
The Beginning:			
The Middle:			
The End:			

Patterning & Algebra Rough Draft

	5	- 1- 2 2W
page 1- picture	text:	
page 2 - picture	text:	
•		
page 3 - picture	text:	
page 4 - picture	text:	
page 5 - picture	text:	
page 6 - picture	text:	
page 7 - picture	text:	
page 8 - picture	text:	
page 9 - picture	text:	

Patterning & Algebra Editor's Checklist



Does your story have
□ a beginning
□ a middle
□ an ending
□ a pattern
What is your pattern rule?
Explain the choice of your pattern rule:
Are your ideas
□ in order
□ interesting
I checked my capitals
□ at the beginning of sentences
□ in names
□ in dates
I checked my punctuation for
periods (.)
□ question marks (?)
□ exclamation marks (!)
= exciamation marks (:)
☐ I checked my story for spelling
☐ I reread my WHOLE story after editing it
\square My pictures give clues to the words and the story
Now you may write your final copy into a roll and slide book.

Grade 3 PAactivity014 covers:
P3:create a pattern in which two or more attributes change (eg. size, colour, position)
P4:discuss the choice of a pattern rule
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Patterning & Algebra Patterning Booklet Rubric



The overall presentation of the needs improvement is satisfactory is good	During the production of the required assistance requires some assistance was independent story the student	Application of patterns in illustrations include illustrations major errors and omissions. • Patterns are often correct in illustrations but include several minor errors. • Patterns are often correct in illustrations with only a few minor errors. • Some additional patterns are provided in illustrations.	Communication of patterns in illustrations are not used to illustrations • Illustrations are communicating in story. • Illustrations are communicating some patterns but are incomplete.	Communication of patterning knowledge through the written story • Mathematical language is imprecise or inappropriate. • No closure or reference to the original pattern is provided. • No closure or reference to the original pattern is provided. • Some mathematical language and symbols are used appropriately, but are compromised by errors or vagueness. • closure to the problem is provided, but may be ambiguous or incomplete.	 Understanding of patterning concepts in written story Concepts in written story Complete and unclear explanations in the story. Understanding of concepts is incomplete based on appropriate but inaccurate explanations in the story. Understanding of concepts is incomplete based on appropriate appropria	Level 1 Level 2 Level 3
is excellent	was independent	 Patterns are accurate in illustrations. Additional patterns are provided in illustrations and connected to the main pattern in the story. 	• Illustrations are used purposefully to communicate pattern and enhance the written text.	 mathematical language and symbols are used purposefully and with elaboration to enhance the story. strong descriptions of patterns provided, with extensions and/or alternatives. 	• Complex and/or thorough understanding of concepts explained throughout the story.	Level 4