Content Standard		MAFS.4.OA Operations and Algebraic Thinking				
		MAFS.4.OA.3 Generate and analyze patterns.				
		apparent features of th given the rule "Add 3" of sequence and observe t	e pattern that were not ex and the starting number 1, hat the terms appear to al	tern that follows a given rule. Identify applicit in the rule itself. For example, generate terms in the resulting attended between odd and even according to alternate in this way.		
Assessment Limits		Whole numbers. Operations in patterns limited to addition, subtraction, multiplication, and division. Growing shape patterns.				
Calculator		No				
Acceptable Response Mechanisms		Equation Response Graphic Response – Drawing/Graphing, Drag and Drop Matching Item Response Multiple Choice Response				
		Multi-Select Response Natural Language Response Table Response				
Context	Allowable	ble				
			Example			
Context	A pattern	pattern is shown.				
	Intermed	termediate initial terms (between 10 and 100). termediate rates of change (between 10 and 20 for addition/subtraction; between 5 and 10 for multiplication/division).				
Context easier	Addition and subtraction patterns. Smaller initial terms (less than 10). Smaller rates of change.					
Context more difficult	Larger initial terms (greater than 100). Larger rates of change.					
	Rules that use two operations.  Shape patterns are generally more difficult than numeric patterns.					
Sample Item Stem			Response Mechanism	Notes, Comments		
The first number in a pattern is 5. The pattern follows the rule "Add 3."		Equation Response				
wnat is t	ne next nu	mber in the pattern?				

## Grade 4 Mathematics Item Specifications Florida Standards Assessments

The first number in a pattern is 6. The pattern follows the rule "Divide by 2, and then add 8." Complete the table to show the next three numbers in the pattern.  Numbers in the Pattern  6	Table Response	
A shape pattern is shown.  Describe how the number of total squares in each shape is related to the shape's number.	Natural Language Response	