Cluster Summary for: Analyze patterns and relationships		Domain: Operations and Algebraic Thinking						
Grade Level: 5 th Grade		Cluster Prio	Supporting Cluster _XAdditional Cluster					
SCALE	TRIMESTER 1		TRIMESTER 2			TRIMESTE	R 3	
4: Advanced								
In addition to score 3, in-depth inferences and applications go beyond Mathematics, are applied to other disciplines, and are utilized in real-world contexts.								
3: Proficient	No expectation of students		No expectation of students	Generate two numerical patterns using two given rules.				
The student exhibits no major errors or	to know and perform on this		to know and perform on	Identify apparent relationships between corresponding terms.				
omissions.	cluster during this	s trimeste	his cluster during this	Form ordered pairs consisting of corresponding terms from				
			trimester.	the two	patterns a	nd graph ordered	pairs on a coordi	nate
Due ficier au Franzes la				plane.				
Proficiency Example				(26 ± 18) 4 Solution: 11				
				• $\{[2 \times (3+5)] = 9\} + [5 \times (23-18)]$ Solution: 32				
				• $12 - (0.4 \times 2)$ Solution: 11.2				
				• $(2 + 3) \times (1.5 - 0.5)$ Solution: 5				
				• { 80 ÷ [2 x (3 . + 1 .)] }+ 100 Solution: 108				
				Make a chart (table) to represent the number of figh that Sam and Tarri satah				
				iviane a chart (table) to represent the number of fish that Sam and Terri Calch				
					Days	Sam's Total Number of Fish	Terri's Total Number of Fish	
					0	0	0	
					1	2	4	
					2	4	8	
					3	6	12	
					4	8	16	
					5	10	20	
				Describe the nattern:				
				Since Terri catches 4 fish each day, and Sam catches 2 fish, the amount of Ter				
				always greater. Terri's fish is also always twice as much as Sam's fish. Today,				
				Sam and Terri have no fish. They both go fishing each day. Sam catches 2 fish day. Terri catches 4 fish each day. How many fish do they have after each of the				
				days? Make a graph of the number of fish.				



Everyday Math lessons:

Mathematical Practices Best Taught in this Cluster: (check those that apply)

Make sense of problems & persevere in solving them x Reason abstractly & quantitatively Construct viable arguments & critique the reasoning of others Model with mathematics Use appropriate tools strategically Attend to precision x Look for and make use of structure Look for & express regularity in repeated reasoning

Kev Vocabulary for the Cluster: numerical patterns, rules, ordered pairs, coordinate plane, corresponding terms, graph (verb),