

Test Averages

2nd - 81

3rd - 75

4th - 68

5th - 76

7th - 69



If you did not turn in a notebook, it is now LATE and will only be accepted until 4:30 TODAY. Please make sure it is in the bin on Ms. K's desk before then.

On page 23 & 24, set up unit 2 in your notebook.

Put your "9" tab on page 93 (fold along the dotted line)

TITLE: Foundations for Functions

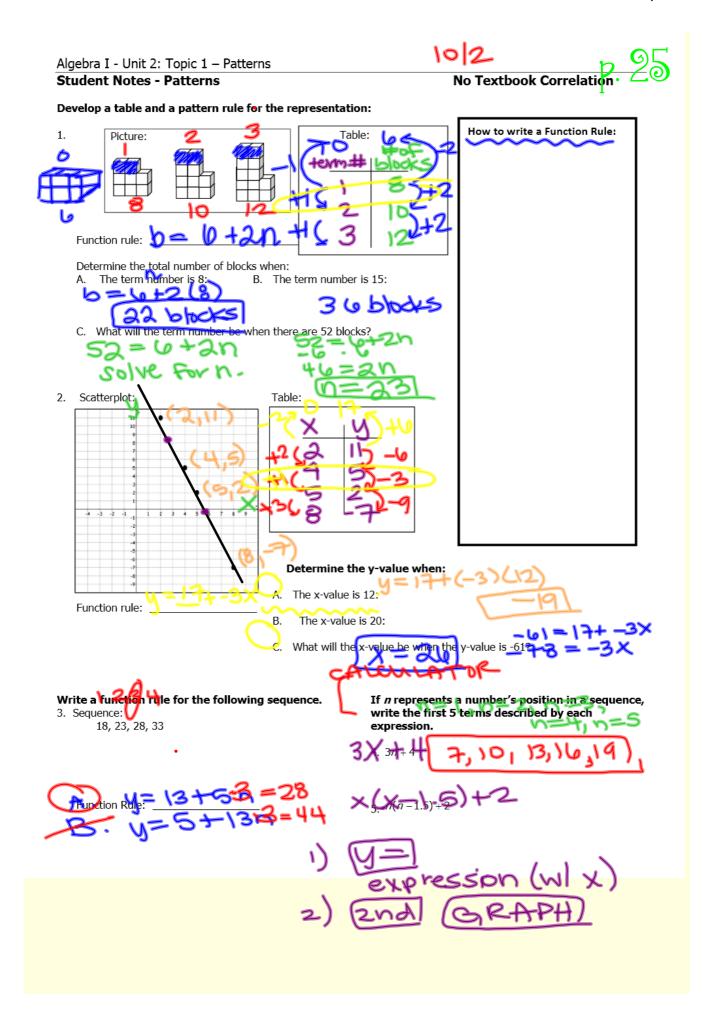
Page # 24	Page Title Words Worth Knowing
	Words Worth Knowing
25	Patterns

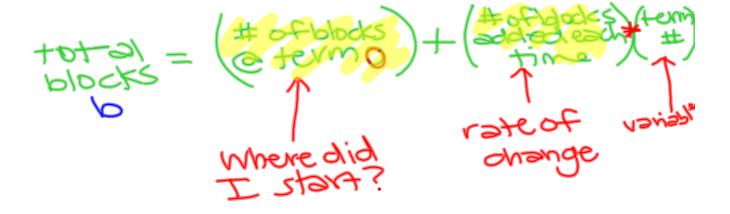
Unit 2	Words	Worth	Knowing
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- Pattern
- □ Term (Position)
- □ Sequence
- □ Pattern Rule
- □ Scatterplot
- ☐ Function Rule
- Domain
- Range
- Ordered Pair
- ContinuousGraph
- □ Discrete Graph
- Linear Parent
 Function
- Quadratic

Parent Function

- □ Parabola
- □ CBR
- Distance vs.
 Time Graph
- Speed vs. Time Graph





Algebra I - Unit 2: Topic 1

Practice – Patterns (2 pages)		No Textbook Correlation	
Name	Date	Per	

If n represents a number's position in a sequence, write the first 5 terms described by each expression.

1.
$$2n + 7$$

2.
$$n(n-6)+2$$

Find the term number when it takes 103 blocks to build.

Match each sequence with its rule on the right.

$$A x + 5$$

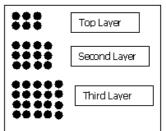
$$C x^2 + 5$$

Answer the following questions.



6. A special sequence is called the Fibonacci sequence. It is named after Leonardo Fibonacci from Italy who presented it in 1201. This sequence is very intriguing because the numbers in the sequence are often found in nature. The first six terms of the sequences are listed below. Give the next six terms of the sequence.

- 7. Pam needs to make a tower of soup cans as a display in a supermarket. Each layer of the tower will be in the shape of a rectangle as shown. The length and width of each layer will be one less than the layer below it.
 - A. How many cans will be needed for the fourth layer?



B. What is the total number of cans needed for an 8-layer tower?

8. Sara planted rows of tulips in her garden, as shown in the table. Which expression best shows the number of tulips per row, r.

Row Number	Number of Tulips
1	3
2	6
3	9
4	12

A.	3	-	r

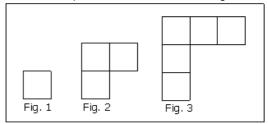
Algebra I - Unit 2: Topic 1

9. A geometry class was exploring the sum of the interior angles, S of polygons as compared to the number of sides, n, that the polygon has. They recorded their data in the table below. Complete the table, and state the function rule.

n	5
3	180
4	360
5	540
6	720
7	
8	
9	
10	

Function Rule: ______

- 10. The top-count views of a block pattern are shown below. How many blocks does it take to build figure 10?
- Α 4
- B 5
- C 19
- D 23



11. The figures to the right have a repeating pattern. Which shows the 57th figure in this pattern?











- 12. The figure below shows a partial view of Pascal's triangle. Which row of numbers best represents the seventh row in Pascal's triangle?
 - A 1 5 10 10 5 1
 - B 1 6 15 20 15 6 1
 - C 1 7 21 35 35 21 7 1
 - D 1 8 28 56 70 56 28 9 1

Pascal's Triangle										
Row 1:					1					
Row 2:				1		1				
Row 3:			1		2		1			
Row 4:		1		3		3		1		
Row 5:	1		4		6		4		1	