Russell County Schools Non-Traditional Instructional Expectations

Day: 1

School: RCHS Course/Subject: Algebra I Teacher: Pam Wilson

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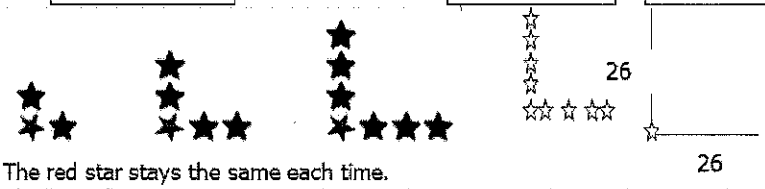
Learning Target: ***Students will describe visual patterns in words, numerically in a table, graphically and use to predict the 42 pattern.***

Lesson Expectations:

Students will choose 3 visual patterns.
Describe each pattern in your own words.
Draw the next picture in the pattern.
Sketch/Label the 27th picture.
Create a table of values for the term, #blocks.
Write an equation* to model it.

Example:

Visual Pattern: Next Pattern: Sketch 27th picture:

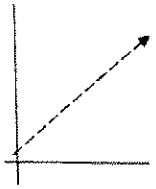


Describe in my own words:

The red star stays the same each time.
The "arms" grow out 1 step, or by 2 total each step. The arm length is the same as the term number.

Create a table:

Term	Total stars
1	3
2	5
3	7
4	9
5	11
10	21
27	55



Write equation to model if you can...
y=1+2x

The total stars = 1 red star + 2(term number) blue stars

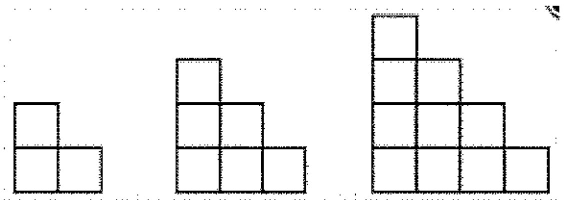
For Alternate Assignment Options:

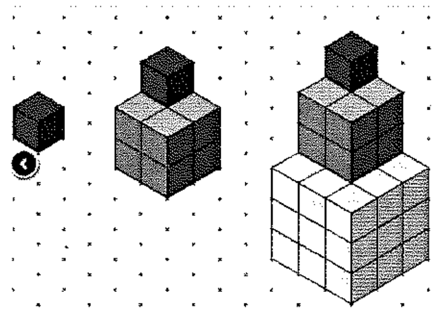
Visualpatterns.org
Which One Doesn't Belong Website: wodb.org
Estimation180.com
Desmos.com student.desmos.com
Would You Rather Math

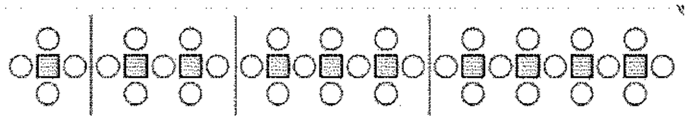
For Supplemental Resources and Support: pamwilson.wordpress.com
For Teacher Support: pam.wilson@russell.kyschools.us

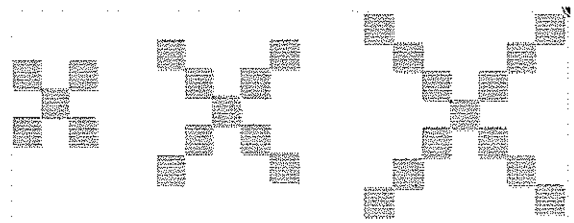
Reminder: Assignments are due back to teachers within 2 school days.

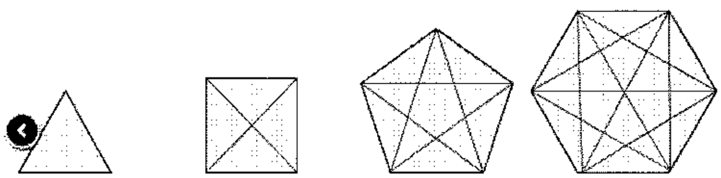
Choose 3 of the following to complete OR go to visualpatterns.org and choose your own.

A. 

B. 

C. 

D. 



Step1 0 diagonals | Step2 2 diagonals | Step 3 5 diagonals | Step 4 9 diagonals

E.

F. Create your own…

visual patterns…

Date	Words	Draw next step	Quick sketch step 27	Complete table		Equation*
				Step n	response	
				1		
				2		
				3		
				4		
				5		
				10		
						Step ___ =
				Step n	response	
				1		
				2		
				3		
				4		
				5		
				10		
						Step ___ =
				Step n	response	
				1		
				2		
				3		
				4		
				5		
				10		
						Step ___ =