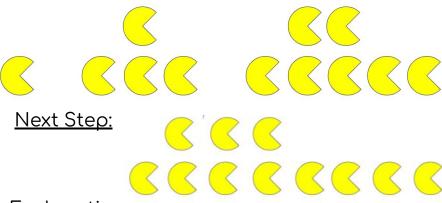
Patterns Project

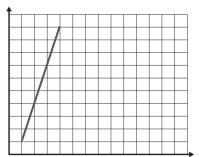
- 1. Go to visualpatterns.org
- You will choose any 2 patterns to work with: 1 that is linear and 1 that is non-linear
- 3. For each pattern:
 - a. Include a picture of the original this can be copy/pasted or hand drawn or created
 - b. Show the next step
 - c. Explain in words how the pattern is changing
 - d. Create a table of values for the pattern
 - e. Create a graph
 - f. Tell whether your pattern is linear or not and explain why.
 - g. For the linear pattern give the equation.
 - h. For EXTRA CREDIT give the equation of the non-linear pattern
 - i. Display all of your information in a neat, clear, easy to read format.



Explanation in words:

Each time 3 new pac-man's are added.

step	pacman
1	1
2	4
3	7
4	11



Linear, because it is adding 3 each time

Equation:

Y = 3x - 2

Pattern Project

Talada 17 Ti oj ada				
2	1	0		
Original Pattern: 1 pt				
	Original pattern is included	Pattern is not included		
Next Term:	1 pt			
	Next term is drawn correctly	Next term is not included or		
	39 (a) (37 (3) (3.7) (3.7) (3.4) (4.4) (3.7) (4.4)	not drawn correctly		
Verbal Explanation:	2 pts			
Explanation is correct and	Explanation contains some	Verbal explanation is not		
clearly explained. Answer	mistakes, but is not	present.		
flows and uses appropriate	completely incorrect. May be			
math language	difficult or hard to follow.			
Table of Values:		2 pts		
Table of values is present	Some values are incorrect	Table of values is not present		
and all values are correct				
Graph:		2 pts		
Axes are drawn. Appropriate	Graph is missing or has	Graph is not present		
scale is used, points are	incorrect elements			
plotted correctly.				
Linear or Non-Linear Explanation:		2 pts		
Linearity is correctly	Linearity is correctly	Explanation is not present		
identified and sufficient	identified, but sufficient			
evidence is given.	explanation/evidence is not			
	given			
Linear Equations:		2 pts		
Equation for linear pattern is	Equation includes slight	Equation is not present		
written correctly.	errors			
	Total Points:	/12		

Pattern Project

		3.00		
2	1	0		
Original Pattern:				
	Original pattern is included	Pattern is not included		
Next Term: 1 pt				
	Next term is drawn correctly	Next term is not included or not drawn correctly		
Verbal Explanation: 2 pts				
Explanation is correct and clearly explained. Answer flows and uses appropriate math language	Explanation contains some mistakes, but is not completely incorrect. May be difficult or hard to follow.	Verbal explanation is not present.		
Table of Values: 2 pts				
Table of values is present and all values are correct	Some values are incorrect	Table of values is not present		
Graph: 2 pts				
Axes are drawn. Appropriate scale is used, points are plotted correctly.	Graph is missing or has incorrect elements	Graph is not present		
Linear or Non-Linear Explanation: 2 pts				
Linearity is correctly identified and sufficient evidence is given.	Linearity is correctly identified, but sufficient explanation/evidence is not given	Explanation is not present		
-	Total Points:	/10		

Total Score:

Linear: 12 Non: 10 Neat: 3

Total: 25

Jine