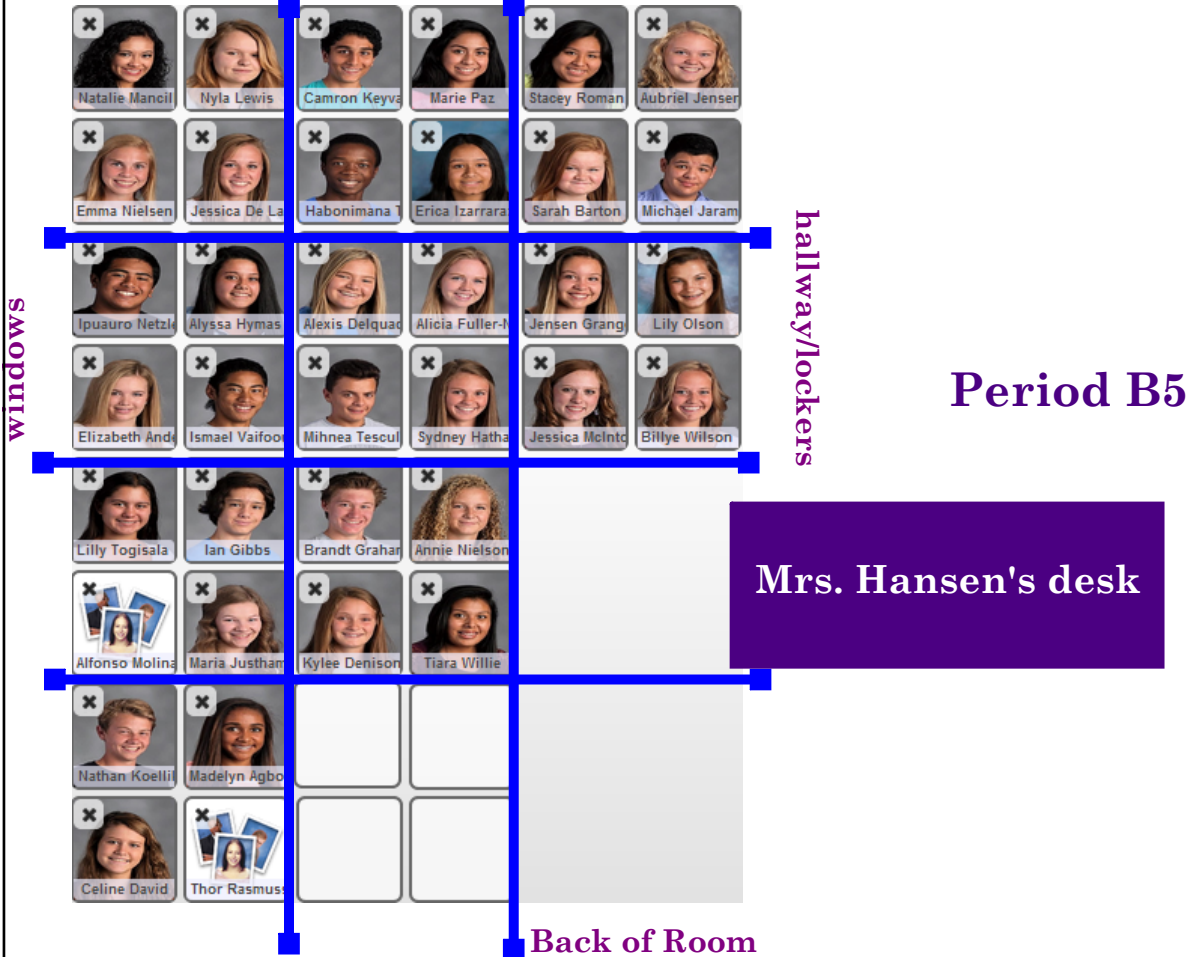


Welcome Students!!

Please find your assigned seat from the diagram below. Assigned seats help me learn your names much more quickly. :)



Questionnaire

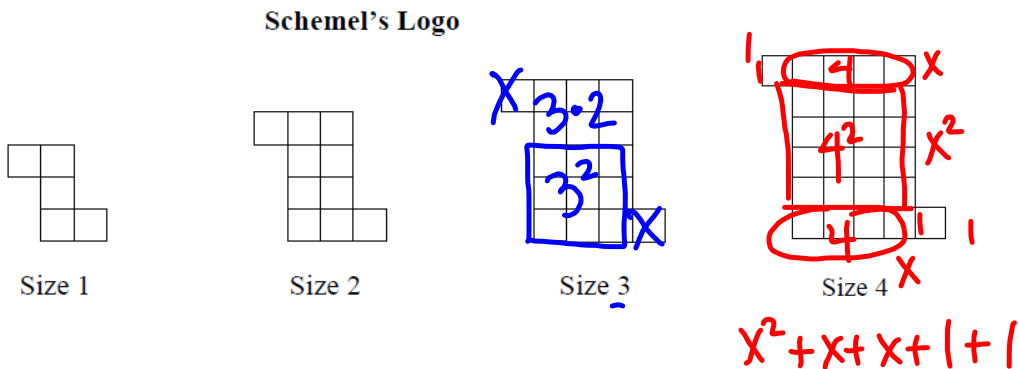
Please fill out this questionnaire thoughtfully and honestly. This will help me, Mrs. Hansen, get to know you better. :)

Disclosure & Remind

SM3H

Schemel's Logo

For the following sequence of figures, assume the pattern continues to grow in the same manner. Describe what the n^{th} figure will look like and determine the number of blocks that would be needed for this figure with a rule or formula.



*Make a poster of your groups answers and thinking. Link the diagram to your rule or formula to determine the number of cubes in the n^{th} tower. Be ready to explain your group's thinking to the class!

size #	# of blocks	figure
1	5	
2	10	5
3	17	7
4	26	9
5	37	11

↑
1st diff. is $2x+1$
IS LINEAR

Linear: constant +/- 1st difference

exponential: constant +/- 1st difference

quadratic: constant +/- 2nd difference

recursive:
previous + $(2x+1)$