

Numeracy Gr 3 January 18

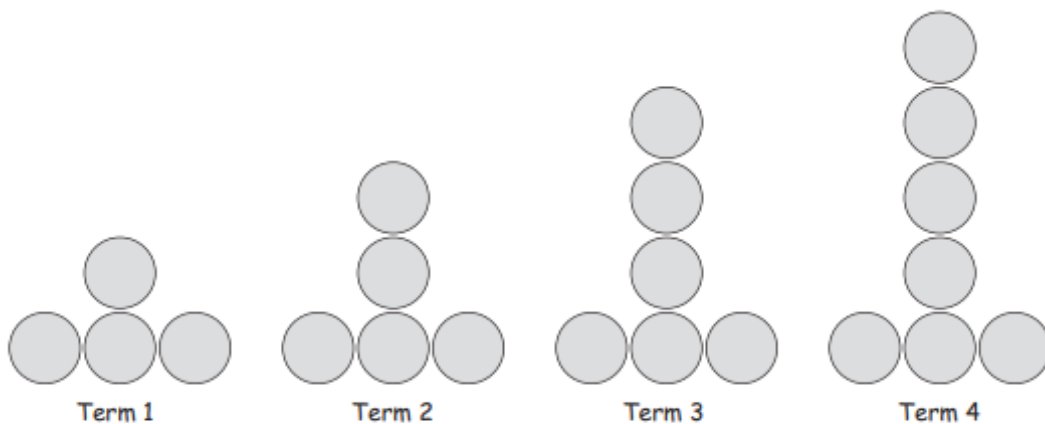
Activity 2: Recording Growing Patterns

Materials Needed:

- Paper and crayons/coloured pencils.

Task Instructions:

In this lesson, we are going to continue with the idea of extending increasing (and in some cases decreasing) patterns and recording them in tables and charts. See the video link in the parent tips to explain charts to your child if they need a review.



Using a number sequence to represent a growing or shrinking pattern helps students generalize the pattern (e.g., "Begin with 4 at term 1, and then add 1 at each new term"), and allows students to predict the number of elements at later terms (e.g., if the numbers representing the first four terms are 4, 5, 6, 7, then the number of elements at term 5 is 8, and the number of elements at term 6 is 9).

Term Number	Number of Circles
1	4
2	5
3	6
4	7
5	?
6	?

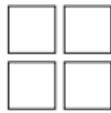
Have your child make a table. It can be a vertical table as at left, or a horizontal table as below:

Term #	1	2	3	4	5	6
# of Circles	4	5	6	7	?	?

For the patterns on the page below, have your child draw them out, then draw the missing term, and then make a chart with numbers for each term.

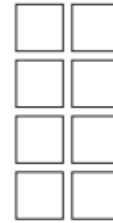


Term 1

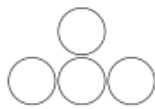


Term 2

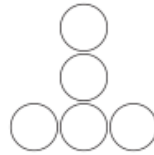
Term 3



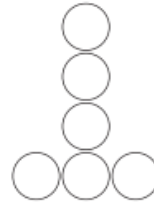
Term 4



Term 1



Term 2



Term 3

Term 4



Term 1

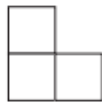


Term 2

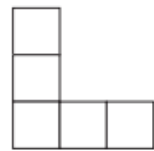


Term 3

Term 4

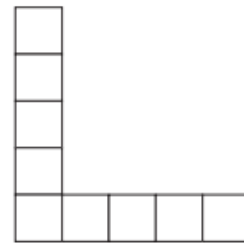


Term 1



Term 2

Term 3



Term 4

Parent Tips:

[Here](#) are some tips for parents to understand about chart making. This is from a US school. For even more patterns to explore, check out Fawn Nguyen's [Visual Patterns](#). But for Gr 2 and 3 students, please don't make them go above term 5 unless they are very comfortable.