Numeracy Gr 3 January 25

Activity 2: Making a Rule for Growing Patterns

Materials Needed:

•	Pencil and paper, small objects to make patterns with or coloured pencils.
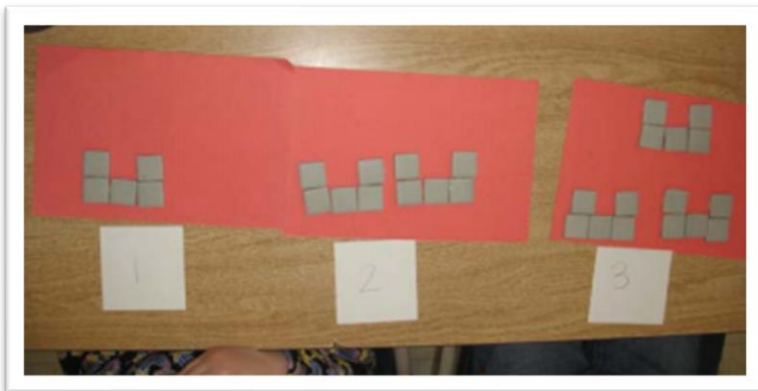
Task Instructions:

Now we are going to move from extending growing patterns to describing a general rule for how the patterns are growing.

For each of these tables of values, have your child fill in the missing numbers.

Term #	1		3		5	6	10	ANY NUMBER
# of Parts	1	3	5	7				

Term #	1	2		4	5	6	10	ANY NUMBER
# of Parts	1	4	6	8				

Term #	1	2	3	4	5	6	10	ANY NUMBER
# of Parts	5	7	9	11				

After they can do and understand these tables, have them create their own patterns, make a table of values for it, and then make a rule for the pattern. For example the bricks in the picture below are arrange as 5, 10, 15….the rule is to go up by 5 each time. Repeat.

Parent Tips:

These patterns will be easier for the student to understand if you use blocks or draw diagrams.

Term #	1	2	3	4	5	6	10	ANY NUMBER
# of Parts	1	3	5	7	9	11	19	Add 2 to the previous number

Term #	1	2	3	4	5	6	10	ANY NUMBER
# of Parts	1	4	6	8	10	12	20	Double the number

Term #	1	2	3	4	5	6	10	ANY NUMBER
# of Parts	5	7	9	11	13	15	23	Double the number and add 3

If you would like to check on your child's understand of patterns, look at the series of questions here.