

## 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:

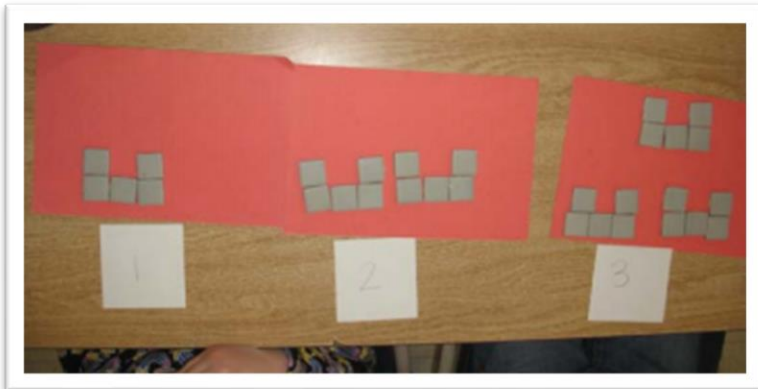
Now we are going to move from extending growing patterns to describing a general rule for how the patterns are growing.

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	10	15	20				



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 arranged 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	10	15	20	25	30	50	Multiply by 5 for each number

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