Consolidating linear sequences and representing problems with algebra

Mathematics
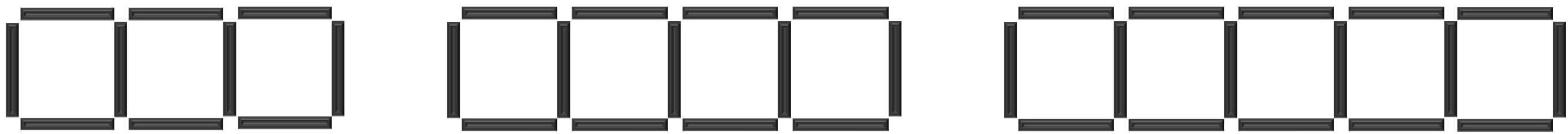
Independent Task

Miss Jones

Bob is making square patterns using sticks from his garden.

He records the amount of sticks used for each pattern in a table.

What is the term-to-term rule? Can you complete the table?

Number of squares made	1	2	3	4	5	6
Number of sticks used			10	13	16	

Vegetable Variables

Laura has a vegetable garden.
She plants y potatoes.

Create expressions in terms of 'y' to correctly fill in the blanks for each sentence.

She plants double the amount of carrots as the number of potatoes. She plants _____ carrots.

She plants 10 fewer turnips than potatoes. She plants _____ turnips.

She plants half as many leeks than potatoes. She plants _____ leeks.

She plants 13 more tomatoes than potatoes. She plants _____ tomatoes.

Challenge:
She plants twice as many courgettes as turnips.
 She plants _____ courgettes.