SEQUENCES

Name:

Assessment Criteria: Generate terms of a sequence using term-to-term and position-to-term definitions of the sequence, on paper and using ICT; write an expression to describe the nth term of an arithmetic sequence.

1. Look at the following sequence of numbers.

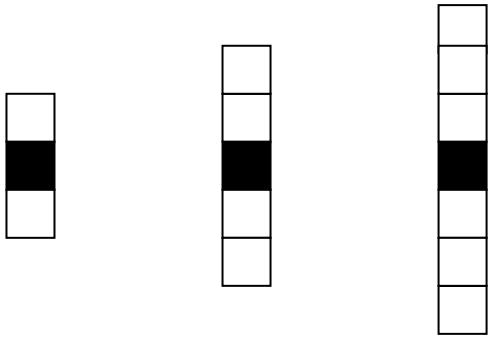
a) Complete the missing numbers

5, 12, 19, 26, ___, ___

b) What is the term-to-term rule? _____

c) What is the nth term of the sequence? _____

2. Look at the following pattern.



Pattern 1 Pattern 2 Pattern 3 Pattern 4

a) Draw the next pattern in the sequence

b) How many white squares will the 10th Pattern have? _____

c) How many white squares will the nth pattern have? _____

d) How many black squares will the nth pattern have? _____

e) Write a formula for the nth term of the pattern. _____

3. Write down the first 3 terms of the sequence with n^{th} term:

a. $T(n) = 4n - 2$

b. $T(n) = n^2 + 2$

_____

_____

Overall, I think my success level is:	Low ○ ○ ○ ○ High

Q	**SEQUENCES**	☺	☹
	I can describe a sequence using the term-to-term rule		
	I can write an expression to describe the nth term of a linear sequence		
	I can generate terms of a sequence using the position-to-term rule		
	I can solve problems and carry through substantial tasks by breaking them into smaller, more manageable tasks, using a range of efficient techniques, methods and resources, including ICT; give solutions to an appropriate degree of accuracy		

I need to practise …