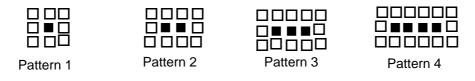
	Non Calculator			Sequences					AT2 L6&7			
1	Complete t (i) (ii) (iii) (iv) (v)	he next 32 1 1 64 1	t term in 25 3 3 16 1	n each 18 6 9 4 2	of the 11 10 27 1 3	followir 4 15 81 ¼ 5	ng sequ 	iences				
2	Look at the following sequence: Describe in words how the sequence cl					3 changes	6 s.	11	18	27		
3	Work out a (i) (ii) (iii) (iv) (v)	formula 4 1 20 1 2	a for th 7 3 17 4 8	e Nth 1 10 5 14 9 18	term fo 13 7 11 16 32	or each 16 9 8 25 50	of the f	ollowir	ng sequ	Jences.		
	□ ■ □ Pattern 1			□□ ■■ □□ Pattern 2		□□□ ■■■ □□□ Pattern 3		□□□□ ■■■■ □□□□ Pattern 4] □] ■] □ 1 4		
4	.,	many	black c	ounter	s will b	e need	nite cou ed for t	he Nth	•			

(ii) How many white counters will be needed for the Nth pattern?



Three white counters are then added to both ends of every pattern.

- (iii) How many white counters are needed for the 15th pattern?
- (iv) How many counters are needed altogether (black & white) in the Nth pattern?
- **5** A sequence has the **Nth term**: 4n 3 Write down the first 5 terms of the sequence.
- **6** Write down the first 5 terms of the n^3 (cubed) sequence.

7	Find the Nth term for the following sequence: 4	16	36	64	100	
8	The first 5 terms of the sequence 2ⁿ are: Write down the first 5 terms for the 3ⁿ sequence.	2	4	8	16	32