

# **GCSE MATHEMATICS**

## **PLC PROJECT**

**INSTRUCTIONS:**

## Sequences 1

### Content:

- Write the terms of a sequence or a series of diagrams given the  $n$ th term
- Generate terms of a sequence using term-to-term methods
- Write the  $n$ th term of a sequence or a series of diagrams

Q1. Write down the next two terms in the number pattern

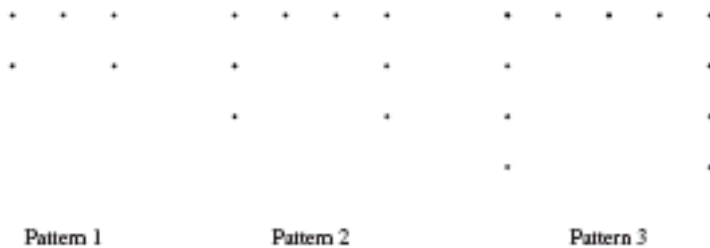
3, 7, 11, 19, ..., ...

- Write down, in words, the rule for finding the next number in the pattern from the one before.
- Write down the rule for finding the  $n$ th term for the pattern

(4 marks)

Q2

Chi San is making patterns with dots.



(a) In the space below draw Pattern 4.

(1 mark)

(b) Complete the table for the number of dots in each pattern.

Pattern number	1	2	3	4	5
Number of dots	5	8	11		

(1 mark)

(c) Which pattern number has 32 dots?

.....

.....

.....

Answer ..... (2 marks)

(4 marks)

Q3.

a) Copy and complete the table

Shape number	1	2	3	4	5
Number of dots	5	8	11	...	...

(2 mark)

**Total Mark ...../ 10**

**Total Mark / 10**