## WS4.3  Student Activity 1B *(Extract from Teaching & Learning Plan on Patterns)*

Represent this repeating pattern – yellow, black, green, yellow, black, green – by building it with blocks or colouring it in on a number strip or drawing a table or in any other suitable way.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|

**1.**   List the numbers of the first 3 yellow blocks. Is there a pattern in these numbers?

**2.**   List the numbers of the first 3 black blocks. Is there a pattern in these numbers?

**3.**   List the numbers of the first 3 green blocks. Is there a pattern in these numbers?

**4.**   What colour is the 6th block?

**5.**   What colour is the 18th block?

**6.**   What colour is the 25th block?

**7.**   What colour is the 13th block?

**8.**   What colour will the 100th block be in the sequence?

**9.**   What colour will the 500th block be in this sequence?

**10.**   Explain how you found your answers to questions 8 and 9.

**11.**   What rule could you use to work out the position number of any of the **(i)** yellow blocks, **(ii)** black blocks, **(iii)** green blocks?