

Maths - Year 4

Pattern and Algebra 1: Exploring sequences and number patterns

Key Vocabulary

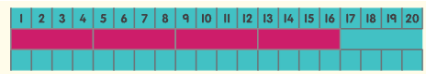
Multiple	The product of two whole numbers larger than one, e.g. 15 is a multiple of 3 and of 5, $5 \times 3 = 15$
Term	One of the numbers in sequence.
Ordinal numbers	First, second, third etc.
Sequence	An ordered list of numbers, shapes or objects, e.g. 20, 25, 30...
Increasing	Getting larger in number or size.
decreasing	Getting smaller in number or size.
Constant difference	The difference between intervals in a sequence of numbers.

Mathematical Skills

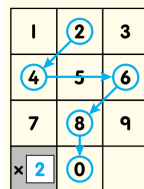
- Recognise sequences of multiples.
- Predict which terms are missing in sequences of multiples.
- Explain connections between patterns in the sequences of multiples of 10 and 1.
- Recognise and describe sequences built with number rods.
- Find differences between terms in increasing and decreasing sequences built with number rods.
- Describe a sequence of increasing measurements on a scale and explain the constant difference as an amount.
- Use the idea of constant difference to find missing numbers in sequences, including on measuring scales.

Mathematical Methods

- Making sequences of multiples with number rods and Numicon shapes.



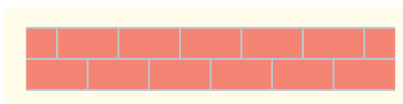
- Exploring patterns in sequences of multiples.



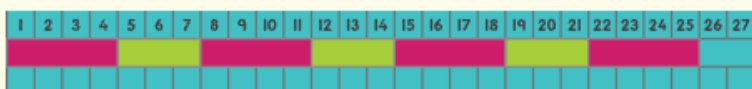
- Comparing sequences of multiples and looking for patterns.

I	II
2	22
3	33
4	44
5	55
6	66
7	77
8	88
9	99
10	110

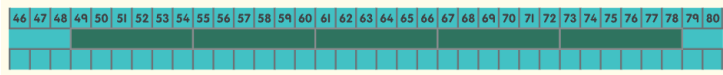
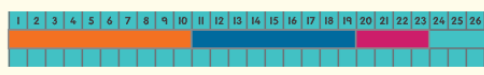
- Making sequences using multiples of 10.



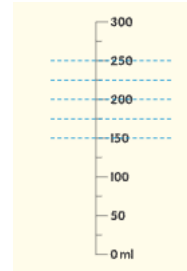
- Exploring other sequences with number rods.



- Using number rods to find missing information in sequences with constant differences.



- Sequences in measuring problems e.g. reading measuring scales.



Can you..?

- Find the missing 1st, 3rd, 5th, 6th and 8th terms in this sequence.



- Continue the sequence 3, 8, 11, 16, __, __, __, __
- Tanya's hamster eats 14g of food each day. Tanya has one full 100g bag of food on Sunday. What day of the week will the food run out?