Maths - Year 3

Pattern and Algebra 4: Extending sequences and finding differences.

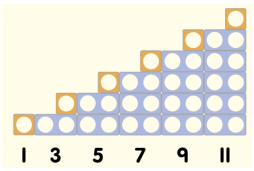
Key Vocabulary	
Step	Refers to the size of the interval between numbers in a sequence.
Consecutive numbers	Numbers that follow each other immediately in a sequence e.g. 2, 3, 4, 5, 6, 7 etc.
Ordinal numbers	First, second, third, forth, fifth etc.
term	One of the numbers in a sequence.

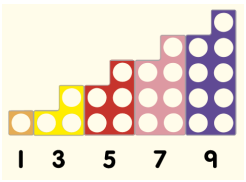
Mathematical Skills

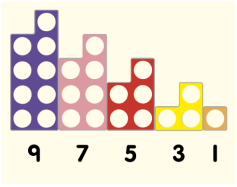
- Look carefully at patterns and begin to notice a rule.
- Connect increasing and decreasing patterns.
- Compare consecutive numbers to find the difference.
- Follow steps to find a rule, however the sequence is represented.
- Explain rules for sequences using the words 'term', 'sequence', 'difference', 'increase', decrease'.

Mathematical Methods

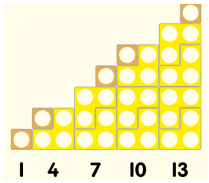
- Exploring the sequence of odd numbers.

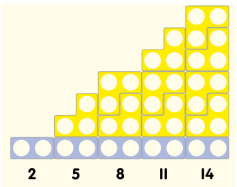


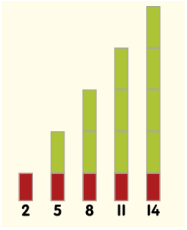




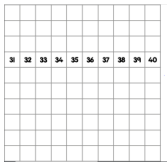
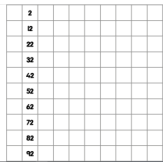
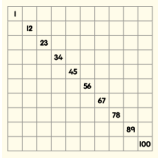
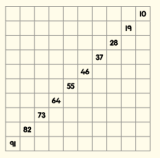
- Looking for rules in sequences and following sequences on e.g.





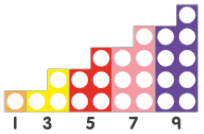


- Identifying the rules/steps in a sequence as the 'difference' between numbers.
- Exploring sequences with decreasing patterns.
- Finding missing numbers in sequences.
- Identifying sequences on a hundred square.

Can you..?

- What will be the 7th term in Tia's sequence?



- Can you write a sequence with the rule - Multiples of 5 plus 2?
- Find a rule for this sequence: 41, 36, 31, 26, 21, 16, 11.
- Extend this sequence to the 10th term: 36, 33, 30, 27….