Learning outcomes from the CIC and how they relate to the **key concepts**

Subitising	**Place Value**	**Multiplicative Thinking**	**Partitioning**	**Proportional Reasoning**	**Generalising**
	• investigate models such as decomposition, skip counting to make sense of the operations of addition, subtraction, in N where the answer is in N, including the inverse operations	• investigate models such as arranging items in arrays and accumulating groups of equal size to make sense of the operations of multiplication and division in **N** where the answer is in **N**, including the inverse operations • investigate the properties of arithmetic commutative, associative and distributive laws and the relationships between them • investigate models such as the number line to illustrate the operations of addition, subtraction, multiplication and division in **Z** • Consolidate their understanding of factors, multiples and prime numbers in **N**	• investigate models to help think about the operations of addition, subtraction, multiplication and division of rational numbers • calculate percentages • use the equivalence of fractions, decimals and percentages to compare proportions	• consolidate their understanding of the relationship between ratio and proportion	• engage with the idea of mathematical proof • use tables and diagrams to represent a repeating-pattern situation • generalise and explain patterns and relationships in words and numbers • write arithmetic expressions for particular terms in a sequence