**Curriculum Related Expectations**

HT3: Year 7 Applications of number

**Students can define the following terms:**

|  |  |  |
| --- | --- | --- |
| Commutative | Frequency | Placeholder |
| Difference | Integer | Place value |
| Digit | Inverse | Profit |
| Equation | Loss | Product |
| Equivalence | Multiple | Scale |
| Estimate | Odd | Significant figure |
| Even | Operation | Sum |
| Factor | Parallel | Total |

**Students know:**

* that relationships between inverse operations can be used to manipulate and solve equations
* that tables, charts and diagrams can be used to represent data in a variety of different ways
* how to choose different calculation strategies to help to solve mathematical problems
* that units are used to represent measures
* how to convert between different standard units
* that the mean can be used to compare different data sets
* that letters are used to represent variables

**Students can:**

* use formal written methods, applied to positive integers and decimals
* recognise and use relationships between operations including inverse operations
* derive and apply formulae to calculate and solve problems
* construct and interpret appropriate tables, charts, and diagrams, including frequency tables, bar charts and pictograms for categorical, and vertical line (or bar) charts for ungrouped data
* select and use appropriate calculation strategies to solve mathematical problems
* change freely between related standard units
* substitute numerical values into formulae and expressions
* solve linear equations in one variable
* use the mean to compare observed distributions of a single variable
* apply the four operators including formal written methods to integers, decimals, proper and improper fractions
* interpret fractions and percentages as operators to solve problems