Year 9 objectives

Number

* add/subtract integers
* multiply integers
* factors and HCF
* multiples and LCM
* squares and powers
* prime numbers
* prime factors
* BEDMAS
* converting fractions, decimals, %
* finding frac, dec of a number
* finding a percentage of a amount
* finding a number as a percentage
* increasing and decreasing by a percentage
* ordering integers, decimals, fractions
* round to nearest whole number

Algebra

* simplifying by adding/subtracting like terms
* simplifying by multiplying (including powers)
* simplifying by dividing
* substitution including into a formula
* expanding one bracket
* expanding and simplifying
* solving one step equations
* solving two step equations
* solving equations with x on both sides
* write equations from information (words)
* factorise simple expressions
* complete patterns and find rules
* draw graphs from tables
* interpret straight line graphs

Measurement

* areas - rectangle, triangle, parallelogram, circle
* perimeters of polygons (including circle)
* volume of prisms - cuboids, triangular prisms, cylinders
* reading scales
* adding/multiplying times
* conversions of units including cm3 to ml
* 24 hr time
* compound areas and volumes

Statistics

* mean, median and mode
* frequency table - finding median and mode
* drawing graphs - bar graph, histogram, dot plot, box and whisker, pie
* interpret graphs (as above)
* describe shape, spread (IQ range), centre, overlap, unusual features