## Grade C Mathematics looks like ...

Understand \& use proportional changes expressed as fractions, decimals, percentages and ratios
Use the equivalence of fractions, decimals and percentages to compare proportions
Calculate percentages and find the outcome of a given percentage increase or decrease
Use proportional reasoning to solve a problem, choosing the correct numbers to take as $100 \%$, or as a whole
Estimate calculations by rounding to one significant figure and multiplying and dividing mentally
Understand the effects of multiplying and dividing by numbers between 0 and 1
Use calculators to perform complex calculations

Construct and solve linear equations (with and without brackets, negative signs anywhere in the equation, positive or negative solution)

Square a linear expression, expand and simplify double brackets
Solve a pair of simultaneous equations

$\mathbb{\gtrless}$ Use formulae from mathematics and other subjects; substitute numbers into expressions and formulae; derive a formula and, in simple cases, change its subject

Find the next term \& the $n^{\text {th }}$ term of quadratic sequences and functions \& explore their properties
Plot graphs of simple quadratic and cubic functions

Solve problems using properties of angles, of parallel and intersecting lines, and of triangles and other polygons, justifying inferences and explaining reasoning with diagrams and text

Deduce and use formulae for the area of a triangle, parallelogram and trapezium; calculate areas of compound shapes made from rectangles and triangles
Solve problems involving the area and circumference of a circle
Understand and apply Pythagoras' theorem when solving problems in 2-D
O Solve problems involving surface areas and volumes of right prisms
On Enlarge 2-D shapes, given a centre of enlargement and a whole-number scale factor; extend to enlarging 2-D shapes, given
$\stackrel{\xi}{ }$ a fractional scale factor; recognise the similarity of the resulting shapes
Recognise that measurements given to the nearest whole unit may be inaccurate by up to one half of the unit in either direction

Understand \& use measures of speed (and other compound measures such as density or pressures) to solve problems


