

## Maths - Summer 2018 checklist

### Year 9 Main 9X2 9X3 9Y2 9Y3

I can solve two step equation problems choosing appropriate operations (all four operations)  
I can interpret key features of a straight line  
I can increase/decrease an amount by a given percentage  
I can operate with decimals and fractions  
I can multiply a fraction by a whole number  
I can divide a fraction by a whole number  
I can expand over a single bracket  
I can simplify an algebraic expression  
I can use ratios and apply scale in real life contexts  
I can solve 2 linear simultaneous equations  
I can use estimation to approximate a calculation  
I can interpret correlation  
I can interpret a scatter diagram  
I can calculate the probability of independent events  
I can identify congruent or similar shapes  
I can solve linear inequalities  
I can calculate the perimeter of 2D shapes  
I can convert between fractions, decimals and percentages  
I can solve a simple quadratic equation  
I can identify coordinates in all 4 quadrants  
I can calculate the probability of independent events  
I can recall simple powers  
I can find a fraction of an amount  
I can divide a quantity into a given ratio  
I can compare quantities using ratio  
I can solve equations  
I can use ratios and apply scale in real life contexts  
I can recognise and continue common sequences  
I can find and use the nth term of a linear sequence  
I can rearrange and use common formulae  
I can calculate the surface area of a prism  
I can expand the product of two binomials  
I can apply Pythagoras Theorem in 2D  
I can calculate the mean, median and mode from a frequency table

### Year 9 Extension 9Y1 9X1

I can expand over a single bracket  
I can simplify an algebraic expression  
I can use ratios and apply scale in real life contexts  
I can solve 2 linear simultaneous equations  
I can use estimation to approximate a calculation  
I can interpret correlation  
I can interpret a scatter diagram  
I can calculate the probability of independent events  
I can identify congruent or similar shapes  
I can solve linear inequalities  
I can calculate the perimeter of 2D shapes  
I can convert between fractions, decimals and percentages  
I can solve a simple quadratic equation  
I can convert between vulgar fractions and mixed numbers  
I can find a percentage of an amount  
I can calculate the probability of independent events  
I can divide a quantity into a given ratio  
I can compare quantities using ratio  
I can solve equations  
I can use ratios and apply scale in real life contexts  
I can recognise and continue common sequences  
I can find and use the nth term of a linear sequence  
I can rearrange and use common formulae  
I can calculate the surface area of a prism  
I can expand the product of two binomials  
I can apply Pythagoras Theorem in 2D  
I can calculate the mean, median and mode from a frequency table  
I can use direct proportion in simple contexts  
I can convert standard units of length  
I can solve a quadratic by completing the square  
I can interpret a travel time table  
I can calculate the volume of 3D shapes