

Queen Elizabeth High School

Year 9 Report 2

Maths

Working Towards	I can apply the following skills to problems but may need some scaffold or retrieval support: • Plot coordinates in all four quadrants • Complete a table of values for a linear graph • Write down the gradient and y-intercept from a line given in the form $y=mx+c$ • Interpret a distance-time graph • Express two quantities in a ratio • Simplify a ratio • Scale recipes up and down to find amounts needed • Describe the rule and continue a sequence • Generate a sequence when given the term-to-term rule
Expected Standard	I can apply the above skills and the following skills in most situations including some problem solving: • Plot a linear graph from a table of values • Find the gradient of a straight line from a graph • Find the equation of a straight line from a graph where the y-intercept is given • Interpret and plot graphs representing real life problems • Write a ratio in the form 1:n or n:1 • Write any ratio as a fraction • Divide a quantity into a given ratio • Solve ratio problems where one value is given • Find the nth term of a linear sequence with a positive or negative difference
Greater Depth	I can fluently and confidently apply the above skills and the following skills to both standard questions and multi-step problem solving situations: • Plot a linear graph when a table is not provided • Find the gradient of a straight line from two given coordinates • Find the equation of a straight line when only given two coordinates • Plot graphs of contextual situations • Combine two ratios where both need scaling • Write a ratio as a linear function and a linear function as a ratio • Find the nth term of a linear sequence where the difference is less than one • Decide if a number is in a given sequence and the position of that number • Understand and work with geometric sequences • Use of estimation and inverse operations to check the appropriateness of an answer