

GCSE UNIT SUMMARY: UNIT 20: Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations

Unit Description	Taught	Revision Priority
Know the difference between an equation and an identity and use and understand the \neq symbol;		
Change the subject of a formula involving the use of square roots and squares;		
Answer 'show that' questions using consecutive integers $(n, n + 1)$, squares a^2, b^2 , even numbers $2n$, and odd numbers $2n + 1$;		
Solve problems involving inverse proportion using graphs, and read values from graphs;		
Find the equation of the line through two given points;		
Recognise, sketch and interpret graphs of simple cubic functions;		
Recognise, sketch and interpret graphs of the reciprocal function $y = \frac{1}{x}$ with $x \neq 0$;		
Use graphical representations of indirect proportion to solve problems in context; identify and interpret the gradient from an equation $ax + by = c$;		
Write simultaneous equations to represent a situation;		
Solve simultaneous equations (linear/linear) algebraically and graphically;		
Solve simultaneous equations representing a real-life situation, graphically and algebraically, and interpret the solution in the context of the problem;		