Act Fast NL Year 11 KS3 Maths

Spring 01

Multiplicative Reasoning

Review scale and enlargement Work with direct and inverse proportion Calculate with pressure and density Determine whether a problem requires additive or multiplicative reasoning





Gradients & Lines

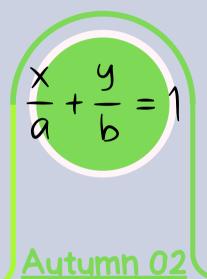
Find and use equations of straight lines

Non-Linear Graphs

Plot & read from quadratic curves

Understand and final roots Plot cubic and reciprocal graphs

Reflect shapes in a given line Construct and interpret speed, distance and time graphs Construct and interpret real-life graphs



Expanding & Factorising

Expand a single bracket and binomials Factorise into a single bracket Factorise quadratics of the form $x^2 + bx + c$ Solve quadratic equations Simplify complex algebraic expressions including algebraic fractions

Changing the Subject

Review solving linear equations Change the subject formula, including perimeter, area and volume formulae Volume of a pyramid

Functions

Find inputs and outputs Show algebraic expressions are equivalent Solve problems using kinematics formulae





Spring 02

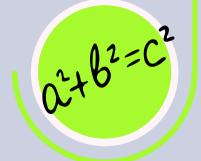
Geometric Reasoning

Review Angle facts, focusing on the language of reasons and chains of reasoning Review Pythagoras' theorem and using trigonometrical ratio

Fractions & Percentages of Amounts

Work with complex indices Review simplification of complex expressions and finding the nth term rule Justify e.g. why a number is / isn't in a given sequence







Past papers Personalised revision topics dependent on individual learner needs



Summer 02 **Complete!**

