## Act Fast NL Year 9 KS3 Maths

## Straight Line Graphs

Find and use the equation of a straight line Reduce equations to the form of $y=m x+c$ Comparing to linear sequences and finding the
rule of the nth term

Forming and Solving Equations \& Inequalities
Revisit and extend to equations and inequalities with unknown on both sides using all previous contexts; angles, probability, etc Change the subject of formula



Spring 02

Summer 01
Enlargement \& Similarity
Enlarge shapes by a positive scale factor, including from
given point
Calculate the lengths of missing sides in similar shapes
Solving Ratio \& Proportion Problems
Direct proportion problems and graphs
Conversion graphs
Solve ratio problems given the whole or part Simple inverse proportion
Unit pricing problems (best buys)
Rates
Work with speed, distance and time
Solve problems involving density


Summer 02

Probability
Deduction
Revisit angles rules, including within special quadrilaterals
Find angles using algebraic methods
Use chains of reasoning to evaluate angles
Rotation \& Translation
Identify the order of rotational symmetry of a shape Find the result of rotating a shape Translate points and shapes by a given vector Understand variance and invariance in the context of
transformations
Pythagoras Theorum
Identify the hypotenuse of a right-angles triangle
Determine whether a triangle is right angled
Calculate missing sides in right angled triangles
shape
Construct and use scale drawings
Construct perpendiculars and bisectors Understand congruency
Exploring congruency via construction

