## Act Fast NL Year 10 KS3 Maths

Spring 01
Angles and Bearings
Review KS3 angle rules
Understand and use bearings

## Working with Circlers

Review area and circumference
Name parts of a circle and perform related calculations Find areas and volumes related to circles - cylinder, cone, sphere, etc...
Vectors
Understand vector notion
Vector arithmetic - Addition, subtraction and multiplication by scalar
Vectors and translations

Summer 01

Congruence, Similarity
\& Enlargement difference betw
and similarity
shape about a given poin
Understand and use similarity Find missing sides in similar shapes including pairs of similar triangles Understand and use the condition for a pair of congruent triangles
Trigonometry
Work out the missing lengths and angles in righ angled triangles
Know and use the exact values of key angles
 Un


# Collecting, Representing \& Interpreting Data 

 Construct and interpret tables and line graphs for time series

> Understand and represent with grouped data Understand and identify correlation

Use lines of best fit, understanding the dangers of extrapolation
Construct and interpret frequency polygons
Evaluate measures of location and dispersion
Use statistical diagrams and measures to compare distributions

Summer 02

Representing Solutions of Equations and Inequalities form and solve equations and inequalities in a variety of contexts, including with unknowns on both sides Represent solutions to inequalities on a number line Sim tolutions to equations graphically
Simultaneous Equations rstand the meaning of a solution, appreciati
some equations have multipl soll some equations have multiple solutions .
Form and solve a pair of simultaneous equations pair of simulta
algebraically


## Ratio \& Fractions

Use ratios, including with mixed units
Fractions in ratios
Fractions from ratios
Unit pricing - 'best buys'
Currency conversions

## Percentages \& Interest

Convert fractions, decimals \& percentages
Find percentages and percentage change
Cand one number as a percentage of another
Evaluate exponential change - Depreciation
Find original values

## End of term assessmen

## Probability

Review of single event probability - Comparing theoretical and experimenta
Understand and work with mutually exclusive and independent events Construct and interpret tree diagrams
Find probabilities from frequency trees, tables and Venn diagrams

Non-Calculator Methods
$\qquad$ and negative, decimals and fractions with and without context - Include all areas of previous study
Work with exact answers - Area \& volume
Types of number \& Sequence
Use factors, multiples, primes and prime factorisation
Recognise arithmetic and geometric Recognise sequences

## Indices \& Roots

Work out powers and roots
Use the rules of indices
Calculate with numbers in a standard index form
End of Y10 assessment

