## Act Fast NL Year 7 KS3 Maths

## Spring 01

## Exploring Sequences

 nd number forms, both linear and non-linearCompare numerical and graphical forms

## Understanding \& Using

 Algebraic Notion Use single function machines and series of two machines with numbers, bar models an lettersUse and interpret algebraic notion
Understand and use inverse operations and substitute into expressions, including to generate sequences
ent functions graphically
Equality \& Equivalence

$$
\begin{aligned}
& \text { Understand equalit } \\
& \text { Use fact families }
\end{aligned}
$$

Form and solve one-step equation
Understand equivalence of algebraic expressions Collect like terms

Autumn 02


## Addition \& Subtraction

se mental and formal written methods of addition with
integers and decimals, including choosing the most app Solve problems in the context of perimeter, money and frequency trees and tables
Solve problems in the context of bar charts and line charts
Multiplication \& Division Multiply by 10, 100, 1,000, 0.1 \& 0.001 and convert metric units Use mental and formal written methods of multiplication and division
Find the HCF and LCM of small numbers
Evaluate areas of triangles, rectangles and parallelograms Find the mean of a set of numbers
Find the simple fractions and percentages of amounts
Begin to use the order of operations

Fractions \& Percentages of Amounts

Place Value \& Ordering Recognise and use integer place value up to one Recognise and use decimal place to at least Work out intervals and use number lines Compare and order numbers
Use ordered lists to find the range and the median of a set of numbers
Round numbers to positive powers of ten
Round numbers to one significant figure

Fraction, Decimal \& Percentages Equivalence

## Work out simple

percentages of percentages of
amounts with and amounts with and without a calculator

hundredths on diagrams and number lines
interchange between fractions, decimals and percentages for multiples
of one tenth and one quarter
Interpret pie charts
Equivalent fractions

Summer 01

## Construction \& Measuring

Understand and use lettering and labelling notion for
Draw and measure lines and angles accurately
Classify angles

Identify and draw parallel and perpendicular lines Recognise types of triangle, quadrilateral and other

Construct triangles given SSS, SAS \& ASA
Draw and interpret pie charts
Geometric Reasoning
Calculate and use angles at a point, angles on a straight
line and vertically opposite angles
Calculate missing angles in triangles and quadrilaterals

Developing Number Sense
Mental arithmetic strategies
Use known facts to derive other facts Evaluate an algebraic expression given to a

## elated fact

Sets \& Probability
Draw and interpret Venn diagrams
Uraw and interpret Venn diagrams probability
Calculate the probability of a single event Se the sum of probabilitities of an event is 7

Prime Numbers \& Proof

## Pecoanise prime square and triangula

Express a number as a product of prime facts
Powers and roots

Make and test conjectures
Understand and use counterexamples

