

# **MATHEMATICS**

## **KEY STAGE 3 LEVEL 8**

Pupils at Key Stage 3 Level 8 perform well in the following areas:

Understanding and applying a range of Number skills to include:

- ◆ Powers, roots and Standard Form.
- ◆ Proportional calculations to include fractions and negative numbers.

Understanding and applying a wide range of Algebra skills to include:

- ◆ Substitution into formulae and manipulating formulae.
- ◆ Solving quadratic equations and simplifying, multiplying and factorising expressions.
- ◆ Solving inequalities.
- ◆ Sketching and interpreting graphs of linear, quadratic, cubic and reciprocal functions.

Understanding and applying a range of Shape, Space and Measure skills to include:

- ◆ Similarity.
- ◆ Trigonometry.
- ◆ Formulae and dimensions.

Understanding and applying a range of Data Handling skills to include:

- ◆ Cumulative frequency.
- ◆ Median and quartiles.
- ◆ Probabilities for more than one outcome and event.

Applying and communicating these skills in investigative and problem-solving tasks to include reflecting on their own lines of enquiry, applying symbols consistently and commenting constructively on the reasoning and logic used to make generalisations.