COMMON ENTRANCE MATHEMATICS AT CARGILFIELD

Form 6 is really the start of the 13+ C.E. course. In the sense that topics taught in form 6 can be examined in Papers at Level 1 and 2 in the final few months of Year 8. It is therefore a very important year for the pupils. Methods of setting out work is to the same standard as C.E. form 8 work.
By the end of form 7 most of the topics of the Level 1 and Level 2 C.E. examinations will be covered. The extra extension topics for the Level 3 examination will have been mostly covered by the accelerated class 7 (set 1).
(These topics are Pythagoras' Theorem, volume of prisms, graphs of quadratics, inequalities and the harder aspects of algebra. Simultaneous equations and Trial and Improvement can be done in form 8 if needed.)
Form 8 is a year to prepare for the examinations in November, March and the final examinations in June. Depending on what level the pupils are entered at determines the emphasis on topics to be taught and revised. Generally most topics are revisited and expanded upon with the main focus on Algebra and Number. Calculator questions are targeted also.

The Syllabus

At C.E. 13+ the candidates should be familiar with most of the skills and knowledge of the National Curriculum for England and Wales key stage 3 programmes of study. (As well as key stages 1 and 2)

Main Topics are: - **Number, Algebra, Geometry, Measurement and Statistics.**

For more details, please refer to the I.S.E.B. mathematics syllabus.

The Examinations

Two examinations papers of one hour long each sat on consecutive days.
One Non-Calculator, one Calculator with 100 marks for each.
A Mental Arithmetic paper worth 20 marks is sat in May.

There are three Levels: 1, 2 and 3 – the papers get harder as you go from 1 to 2 to 3
The majority of pupils sit Level 2
When grading the papers senior schools are advised to use the multipliers:-

The score for a Level 1 paper x 0.75 gives a rough equivalent to its corresponding Level 2 paper.
The score for a Level 3 paper x 1.2 gives a rough equivalent to its corresponding Level 2 paper.
(These multipliers can vary from 0.6 to 1.4 depending on senior schools and the difficulty of the papers in that year.)
All the pupils sit the same Mental Arithmetic paper.

Additional information

The topics above and their sub-topics are given for guidance only and the curriculum which the pupils follow is not restricted by this examination syllabus which is intended as simply a guide. Candidates are encouraged to build on key stage 2 and connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also be able to apply their mathematical knowledge in science, geography, computing and other subjects.