

# Cleeve School Mathematics Department

## **Mathematics at Cleeve School:**

Mathematics is a core subject and many of its concepts are essential for learning and understanding in many other areas of the curriculum. The study of Mathematics is vital to pupils' life-long learning as it provides us all with knowledge and skills which are transferable to life outside the classroom.

The Mathematics Department at Cleeve is committed to success through stimulating interest by integrating a wide range of complementary resources. Group and individual learning are used, including interactive activities, to develop clear, logical and precise thinking.

The standard of teaching is high within the department and this was recognised in our last Ofsted inspection: *"Students achieve well as a result of good and often very good teaching, which makes very good use of new technologies."*

Departmental self evaluation has shown that standards of teaching are high with the majority of lessons graded outstanding. Our latest OFSTED inspection confirmed this.

## **Profile of the Mathematics Department**

The Mathematics Department has a strong and committed team of individuals who share the same vision of raising results through providing pupils with a challenging and varied curriculum. Central to the success of the department is the very strong team ethos: staff work together extremely well toward common goals. The department comprises thirteen Mathematics specialists. The department has a newly refurbished suite of eleven teaching rooms, all equipped with interactive whiteboards and projectors, a staff workroom and an office.

The current management structure includes two Deputy Heads of Department, who each manage one Key Stage, and the department also has the services of a dedicated part-time administrative assistant.

Ofsted 2007, *"Cleeve School provides an outstanding education.....classroom management and relationships between staff and students are excellent"*.

## **Mathematics Results**

	2009	2010	2011
KS3 SATs Level 5+	<b>89%</b>	<b>89%</b>	<b>94%</b>
KS3 SATs Level 6+	<b>72%</b>	<b>73%</b>	<b>75%</b>
KS3 SATs Level 7+	<b>44%</b>	<b>48%</b>	<b>34%</b>
GCSE Mathematics (A*-C)	<b>77%</b>	<b>77%</b>	<b>76%</b>
A Level Mathematics(A-B)	<b>43%</b>	<b>58%</b>	<b>67%</b>

## **The Mathematics Curriculum at Cleeve School**

### ***Key Stage 3:***

In Mathematics in Key Stage 3 pupils receive four fifty-minute lessons a week in Years 8 and 9 and three fifty-minute lessons a week in Year 7. At Key Stage 3 the department teaches the 'Cleeve Scheme' of work which is supported by the Cambridge Essentials textbooks. Lessons are challenging and interactive. Pupils are encouraged to be able to tackle problems using correct mathematical language on paper and verbally.

At present, Year 7 are taught in tutor groups for the first half term and then allocated to sets according to ability, within two half year groups. Year 8 and 9 are taught as half a year group at a time within set groups.

### ***Key Stage 4:***

In Year 10 and 11 pupils receive four fifty-minute lessons a week. The structure and content of the Key Stage 4 curriculum meets the requirement of the EDEXCEL GCSE syllabus: From September 2010 all Key Stage 4 students have also been prepared for the functional mathematics qualification.

Groups in Key Stage 4 are set according to their ability, within two half year groups. We have one accelerated group in each year, who take their Mathematics GCSE in the first term of year 11 and then take the Additional Mathematics FSMQ.

### ***Key Stage 5***

The department currently offers Mathematics (OCR/MEI) at AS and A2 and Further Mathematics (OCR/MEI) at A2. Pupils have five fifty-minute lessons per week, more than one teacher teaches each group and modules are studied in Core Mathematics, Statistics and Mechanics.

## **ICT and Mathematics**

ICT is an important part of life within Cleeve School and has developed considerably over recent years; ICT is used extensively in lessons. Each member of the teaching staff has their own laptop which is used to track pupils' development in line with the whole school policy on assessment and reporting. The department uses the content management system, FROG, to facilitate common planning across key stages and develop teaching and learning.

## **Extra-curricular Activities**

Extra-curricular activities are an important part of school-life and allow the opportunity to develop pupil and staff relations. At present a number of students in each year group compete in the National Mathematical Challenges, with regular success into the next round. There are department trips organised to support the curriculum, and sixth formers volunteer their time to help students in the lower school classes.