

Subject: Mathematics

Department Staff – Mr E Addo, Mr E DeSouza, Mr E Gakpo,
Mr A Hosseinian, Mr P Kelly, Mr S McCann, Mr K Pillay,
Mr A Sztranyovszky, Ms D Thompson

Year 10 Higher Linear Tier: Set 5 - Autumn Term 2010

Contents: what you will study

Number:

- Multiples and factors of whole numbers
- Prime numbers and Prime factors
- Square numbers
- Square roots and Powers
- Multiplying and dividing by powers of 10
- Adding with grids
- Order of operations and BODMAS
- Long Multiplication, Long Division
- Fractions
- Solving Real Life Problems
- Place value, ordering numbers and rounding
- Adding and subtracting numbers with up to four digits
- Multiplying and dividing by single-digit numbers
- Everyday use of negative numbers
- Arithmetic with negative numbers
- Approximations and Estimating
- Best Buys

Algebra:

- Simplifying expressions
- Expanding brackets
- Factorisation
- Substitution
- Coordinates and graphs
- Distance/time graphs

Shape and space:

- Constructions and Loci
- Symmetry
- Congruence
- Similarity

Handling data:

- Averages
- Collecting data
- Displaying data

Functional Maths

- Using and applying Maths concepts to real-life situations.

National Curriculum levels at which you will work

The foundation tier exam enables pupils to work to achieve a grade G up to a grade C.

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Assessment: how you will be tested this term

Classwork and homework assignments (2 per week), you will have an end of half term test and an end of term test. On-line home work will also be assigned frequently.

NOTE - The Maths GCSE no longer requires coursework but you must demonstrate that you know how to use Maths concepts to solve problems in the exam.

Equipment you will need for this term's work:

Pen, pencil, ruler, compass, protractor, exercise book and calculator.

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Year 10 Higher Linear Tier: Set 5 - Spring Term 2011

Contents: what you will study

Number:

- Arithmetic with decimal numbers
- Arithmetic with fractions Multiplying and Dividing by negative numbers
- Ratio and scale
- Direct proportion
- Fractions
- Equivalent percentages, fractions and decimals
- Expressing one quantity as a percentage of another
- Calculating a percentage increase or decrease
- Calculating a percentage of a quantity

Algebra

- Patterns and sequences
- Formulae and linear equations
- Simultaneous equations

Shape, space and measures

- Quadrilaterals
- Parallel lines
- Scales and mathematical drawings
- 2D and 3D shapes
- Perimeter and area

Handling Data:

- Frequency tables
- Grouped data
- Frequency polygons
- Pie Charts
- Scatter Diagrams
- Social Statistics
- Surveys
- Probability

National Curriculum levels at which you will work

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Assessment: how you will be tested this term

Classwork and homework assignments (2 per week), you will have an end of half term test and an end of term test.

Equipment you will need for this term's work:

Pen, pencil, ruler, compass, protractor, exercise book and calculator.

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Year 10 Higher Linear Tier: Set 5 - Summer Term 2011

Contents: what you will study

Number

- Compound measures
- Error in measurement

Handling Data:

- Pie Charts
- Scatter Diagrams
- Social Statistics
- Surveys
- Reading Scales
- Sensible Estimates
- Averages and range

Shape and space:

- Volume and surface area
- 3D shapes
- Perimeter and area
- Compound measures
- Pythagoras and trigonometry
- Transformations
- Similarity and congruence

National Curriculum levels at which you will work

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Assessment: how you will be tested this term

Classwork and homework assignments (2 per week), you will have an end of half term test and an end of year test.

Equipment you will need for this term's work:

Pen, pencil, ruler, compass, protractor, exercise book and calculator.