

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 Foundation Linear Tier: Sets 6 and 7 - 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
- 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
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Algebra:

- Simplifying expressions
- Expanding brackets
- Factorisation
- Substitution
- Coordinates and graphs

Shape and space:

- Constructions
- Symmetry
- Congruence
- Similarity

Handling data:

- Averages
- Collecting 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.

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 Foundation Linear Tier: Sets 6 and 7 - Spring Term 2011

Contents: what you will study

Number:

- Arithmetic with decimal numbers
- Arithmetic with fractions Multiplying and Dividing by negative numbers
- Ratio
- 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

Shape, space and measures

- Quadrilaterals
- Parallel lines
- Scales and mathematical drawings

Handling Data:

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

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Equipment you will need for this term's work:

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

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Year 10 Foundation Linear Tier: Sets 6 and 7 - Summer Term
2011

Contents: what you will study

Number

- Timetables

Handling Data:

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

Shape and space:

- Volume
- 3D shapes
- Perimeter and area
- Compound measures

Algebra:

- Solving simple linear equations
- Solving equations with brackets
- Equations with the letter on both sides
- Setting up equations
- Real life graphs
- Linear graphs
- Trial and improvement
- Solving linear inequalities
- Rearranging formulae
- Distance-time graphs

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Equipment you will need for this term's work:

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