



PUTTING THE FUN BACK
INTO LEARNING!

Dear Parents and Guardians,

Welcome to the Mathematics Department November Curriculum Guide.

Children are streamed into ability groups for Maths so that the curriculum can be tailored to their needs to support and accelerate their progress. Therefore, different sets will cover the learning intentions at different levels and rates. The homework may therefore be different for different ability groups as it is tailored to their needs. Please feel free to contact your child's Math teacher should you have any queries.

The Math Team:

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Maths quote for May:

“Parallel lines have so much in common, it's a shame they will never meet”

Curriculum Content for October

Grade 6:

Topics	Learning Intentions
Basic Algebra	<ul style="list-style-type: none"> • To understand the vocabulary and notation of algebra • To manipulate algebraic expressions
Visualising and Constructing	<ul style="list-style-type: none"> • To explain conventional terms and notations: points, lines, vertices, edges, planes, parallel lines, perpendicular lines, right angles, polygons, regular polygons and polygons with reflection and/or rotation symmetries • To examine the standard conventions for labelling and referring to the sides and angles of triangles • To draw diagrams from written description
Properties of Shapes	<ul style="list-style-type: none"> • To investigate the properties of 3D shapes • To explore quadrilaterals • To analyse triangles

Grade 7:

Topics	Learning Intentions
Probability	<ul style="list-style-type: none">• To examine the meaning of probability• To explore experiments and outcomes• To define outcomes of probability
Algebra	<ul style="list-style-type: none">• To define the notation of algebra• To manipulate, expand and simplify algebraic expressions• To evaluate algebraic statements• To express the meaning of the 'subject' of a formula

Grade 8:

Topics	Learning Intentions
Quadratic Equation	<ul style="list-style-type: none">• To understand the meaning of equation and expression• To use algebra to formulate and solve a problem• To solve quadratic equation
Fractions	<ul style="list-style-type: none">• To convert between fractions and mixed numbers• To add and subtract fractions
Transformation	<ul style="list-style-type: none">• To recognise the order of symmetry of a shape• To translate 2-D shapes
Algebra	<ul style="list-style-type: none">• To use letters or words to form a relationship between quantities.• To substitute positive and negative number into algebraic formulae• To change the subject of a formula

Grade 9:

Topics	Learning Intentions
Inequalities	<ul style="list-style-type: none">• To write numbers given an inequality• To represent inequalities on a number line• to solve inequalities
Powers and Roots	<ul style="list-style-type: none">• To explain the terms: square, positive and negative square root, cube and cube root• To formulate index notation for squares, cubes, powers of 10• To analyse index laws for multiplication and division of integer powers: including negative indices• To express powers and roots in standard form notation
Pythagoras and Trigonometry	<ul style="list-style-type: none">• To explore Pythagoras' Theorem• To apply Trigonometry in right-angled triangles• To solve trigonometry problems including angle of depression and elevation

How can you help?

- Make sure your child comes to school prepared.
- Teach them to check and pack their own school bags so that they know exactly what is inside them.
- Make sure their books and stationery are marked with their name

- Ensure their pencil case is always stocked with stationery which MUST include: HB pencils, a rubber, a sharpener, a blue or black pen, a red pen, a 30cm-ruler, a Geometry Set, a scientific calculator, a glue stick, a whiteboard pen, an easer and scissors
- Regularly check Bric and guide the children towards the completion of the task given as homework.
- Do not complete homework for your children or we cannot assess their needs and progress accurately
- Use BBC Bitesize with your child to review the learning Intentions: <http://www.bbc.co.uk/education>
- Use Maths is Fun website with your child to access further explanation of a topic www.mathsisfun.com

Maths joke for Fathers and Mothers:

Q: What happened to the plant in maths class?

A: It grew square roots.

Thank you for your ongoing support

The Maths Team