PUTTING THE FUN BACK INTO LEARNING!

Dear Parents and Guardians,

Welcome to the Mathematics Department March Curriculum Guide.

The Maths Team:

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 Maths teacher should you have any queries.

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THEMATHSTEACHER

Curriculum Content for March

Grade 6:

Topics	Learning Intentions
Calculating with fractions, decimals and percentages	• To apply the four operations to simple fractions and mixed numbers • To interpret percentages and percentage changes as a fraction or a decimal • To solve problems involving percentage
Solving equations	• To recognise and use relationships between operations, including inverse operations • To solve linear equations in one unknown, algebraically

Grade 7:

Topics	Learning Intentions
Calculating with fractions, decimals and percentages	• Identify the multiplier for a percentage increase or decrease • Use calculators to increase an amount by a percentage greater than 100% • Solve problems involving percentage change

	• Solve original value problems when working with percentages • Solve financial problems including simple interest
Solving equations and inequalities	• Identify the correct order of undoing the operations in an equation • Solve linear equations with the unknown on one side when the solution is a negative number • Solve linear equations with the unknown on both sides when the solution is a whole number • Solve linear equations with the unknown on both sides when the solution is a fraction • Solve linear equations with the unknown on both sides when the solution is a negative number • Solve linear equations with the unknown on both sides when the equation involves brackets • Check the solution to an equation by substitution

Grade 8:

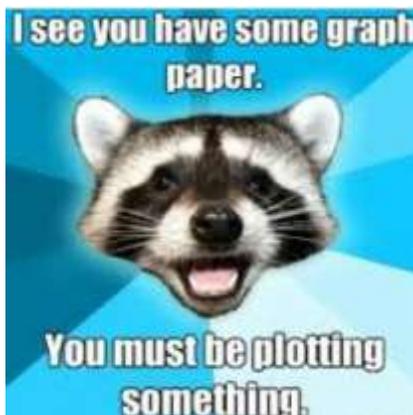| Topics	Learning Intentions
Graphs and charts	• To be able to draw and interpret pie charts • To be able to draw cumulative frequency graphs • To find the quartiles and median from cumulative frequency graphs • To draw box plots from cumulative frequency graphs
3D Shapes	• To find the surface area and volume of 3D shapes • To calculate the volume of compound shapes • To discover the volume of spheres, pyramids and cones
Sequences	• To recognise number patterns and carry on sequences • To explore the nth term of sequences

Grade 9:

Topics	Learning Intentions
Density (Continued)	• To understand how to measure density • To relate density to real life situations • To compare density to compound measures
Symmetry	• To distinguish how to draw lines of symmetry • To explore rotational symmetry of basic and complex shapes • To accurately draw and annotate shapes with lines of symmetry and rotational symmetry • To translate shapes with lines of symmetry • To tessellate shapes
Shape	• To discover the area of 2D and 3D shapes • To find the perimeter of complex shapes • To calculate area of shapes from given data

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 and 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 with your child to access further explanation of a topic www.mathsisfun.com

Maths joke for Fathers and Mothers:

I see you have some graph paper.

You must be plotting something.

Thank you for your ongoing support

The Maths Team