PUTTING THE FUN BACK
INTO LEARNING!

Dear Parents and Guardians,

Welcome to the Mathematics Department February 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 level and rates. Their 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 February

Grade 6:

Topics	Learning Intentions
Proportional Reasoning	• To understand and use ratio notation • To solve problems that involve dividing in a ratio
Sequences	• To explore number sequences • To explore sequences
Measuring Space	• To measure accurately • To convert between measures • To solve problems involving measurement

Grade 7:

Topics	Learning Intentions
Sequences	• To recognise a pattern in a sequence • To create a rule for a given sequence (n^{th} term) • To generate a sequence from the nth term

Investigating angles	• To understand and use alternate and corresponding angles on parallel lines • To derive and use the sum of angles in a triangle to find the total interior angles of polygons.

Grade 8:

| Topics	Learning Intentions
Transformations	• To describe different types of transformations (reflection, translation and rotation) • To translate shapes when given a column vector • To identify equations of lines when reflecting shapes • To rotate shapes successfully given the center of rotation
Percentages	• To calculate percentage increases and decreases • To recognise compound percentage problems • To calculate depreciation with use of a multiplier
Graphs and Charts	• To represent data visually • To draw pie charts accurately using a protractor • To interpret data from scatter graphs and bar charts

Grade 9:

Topics	Learning Intentions
Vector Geometry (cont)	• To recognise magnitude and direction of a vector • To distinguish the three forms of vector notation • To identify equal vectors • To calculate the magnitude of a vector • To detect parallel vectors • To multiply a vector
Arc Lengths and Sectors of Circles	• To know the meaning of perimeter and area • To accurately draw the arcs of a circle • To formulate arc lengths • To discover the formulas for arc lengths and sectors
Density	• To understand how to measure density • To relate density to real life situations • To compare density to compound measures

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

<u>Maths joke for Fathers and Mothers:</u>
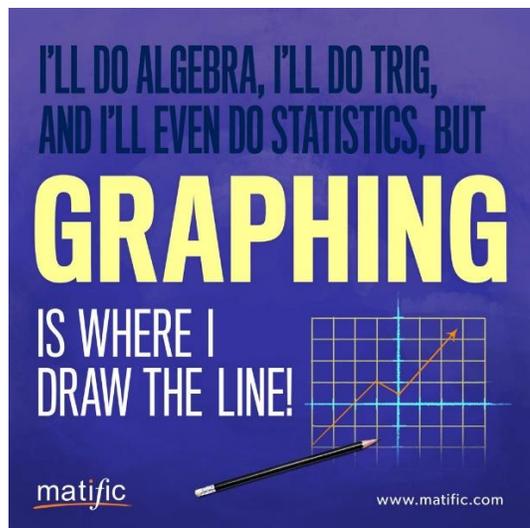
Thank you for your ongoing support

The Maths Team