# ROOKS HEATH SCHOOL
## Strive to be your best

**MATHS NEWSLETTER. ISSUE 1. TERM 1.**

Welcome to the first Mathematics Department Newsletter. The aim of this newsletter is to provide parents/carers and students with useful information to support and encourage students with their maths learning at Rooks Heath School. In the newsletter, we have website and book recommendations, information on assessments and lesson content to explore further. We will send out the newsletter each term, to keep you up to date with everything going on within maths at RHS. Please do contact me if you have any questions or would like more information about a particular area. I can be emailed at ntakhar@rooksheath.harrow.sch.uk , or please email the relevant class teacher.

Many thanks,

Mrs N Takhar (Head of Mathematics)

## Assessment Dates

**Year 7:** W/C 5th of December

**Year 8**: W/C 5th of December

**Year 9:** W/C 12th of December

**Year 10:** W/C 3rd of January

**Year 11:** W/C 21st of November

**Year 12:** W/C 1st of December

**Year 13:** W/C 1st of December

*LOOK OUT FOR INFORMATION IN 'SATCHEL ONE', 2 WEEKS BEFORE THE ASSESSMNET*

**In addition to these assessments, all students will have regular end of chapter tests.**

## Support

| What | When | Where |
|------|------|-------|
| Maths Homework Club | Every Thursday 3:10pm – 4:10pm | D2 |
| KS3 Maths Champion Club (years 7, 8 and 9) | Every Thursday 3:10pm – 4:10pm | D1 |
| KS4 Maths Master Class (years 10 and 11) | Every Thursday 3:10pm – 4:10pm | D3/MG1 |
| KS5 Maths Club (Years 12 and 13) | Every Thursday 3:10pm – 4:10pm | EF3 |
| UKMT Maths Challenge Club And STEM Club | Every Thursday 3:10pm – 4:10pm | EG7 |

## Homework

**Homework is set once a week**

Once a week, it will be a written piece of homework - it can be a worksheet or an exercise from the homework books. The following week, an online homework will be set on either MyMaths or Kerboodle.

Teachers will set the homework as an assignment on Teams, and you should also get a notification via Satchel One.

# Learning this term?

As a department we follow the schemes of learning from White Rose Maths and Kerboodle.

The Knowledge Organiser for each topic can be found in Teams/SharePoint in Year Group folders.

GCSE Maths exam board - **Edexcel**

Level 2 Further Maths exam board - **AQA**

AS/A' level Maths exam board - **Edexcel**

This term the Year Groups are studying the following:

| Year 7 | • Algebraic Thinking <br> • Place Value and Proportion |
|---|---|
| Year 8 | • Proportional Reasoning <br> • Representations |
| Year 9 | • Calculations <br> • Expressions <br> • Angles and Polygons |
| Year 10 | • Probability <br> • Measures and accuracy <br> • Equations and Inequalities <br> • Circles and Construction |
| Year 11 | • Factors and Powers <br> • Graphs <br> • Working in 3D shapes <br> • Data Handling |

| Year 12 | • Algebraic Expressions <br> • Quadratics <br> • Equations and inequalities <br> • Graphs& Transformations <br> • Straight line graphs <br> • Circles <br> • Algebraic Methods <br> • Binomial Expansion <br> • Trigonometry |
|---|---|
| Year 13 | • Radians <br> • Trigonometry <br> • Parametric equations <br> • Differentiation <br> • Numerical Methods <br> • Integration <br> • Vectors |

# Exam Tip

## What to do when you are stuck ...

A piece of ground measuring 3.5 m by 6.7 m is to be treated with fertiliser. Fertiliser costs 60p per square metre. Work out the cost of fertilising this piece of ground.

Give your answer to the nearest pound.

(1)

Did you miss some information the first time?

How many marks is the question worth?

## Re-read the question CAREFULLY this time!

# Symbol of the term

$$\neq$$

**Symbol Name in Maths:** Not equal to
**Maths symbol meaning:** inequality
The not equal sign (also called the inequality sign) is part of a family of symbols used to **indicate inequality between values**, when two things are not equal. For example, 0 is not equal to 1, which we express as $1 \neq 0$. The not equal sign takes the form of the equal sign with a slash through it.

# Word of the term

# Coefficient

A **coefficient** refers to a number or quantity placed with a variable. It is usually an integer that is multiplied by the variable and written next to it.
In other words, the coefficient is the number in front of an algebraic symbol.
For example:
The coefficient of 5X is 5.
What is the coefficient of $9x^2$?

# Career in Maths

**Aeronautical Engineering**
Subjects Needed for Aeronautical Engineering require a concentration of advanced mathematics courses**,** such as calculus and analytic geometry.
The aeronautical engineers are responsible for the management and development of all branches of aerospace engineering: air operations and companies, consultancy, design, certification, manufacture and maintenance of aircraft and engines, space development, as well as air navigation and the construction and management of airports.

# Maths Puzzle of the term

Just follow the instructions from left to right, starting with the number given to reach an answer at the end.

## A

| EASY | 20 | x 3 | + 2/3 OF IT | + 1/4 OF IT | x 3 | ÷ 5 | − 70 | x 11 | TRIPLE IT | x 2 | ANSWER | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MEDIUM | 242 | + 487 | ÷ 9 | − 9 | + 5/12 OF IT | DOUBLE IT | + 3/4 OF IT | + 201 | x 2 | + 1/4 OF IT | ANSWER | |
| HARDER | 18 | SQUARE IT | ÷ 36 | x 12 | + 64 | + 1/4 OF IT | + 3/5 OF IT | TRIPLE IT | + 299 | − 5/11 OF IT | ANSWER | |

# Welcome to Rooks Heath School



# Meet the Maths Team

| Mrs N. Takhar (Head of Maths) |
| --- |
| Mrs S. Subra |
| Mrs A. Syed |
| Mrs S. Sritharan |
| Ms H. Capper |
| Mrs A. Farzady |
| Mr E. Bissoon |
| Mrs N. Khan |
| Ms A. Murray |
| Mr F. Hady |
| Mr J. Mujadidi |
| Ms V. Caullet |