

ROOKS HEATH SCHOOL Strive to be your best



MATHS NEWSLETTER. ISSUE 1. TERM 2.

Happy New Year 2023!

It has certainly been a busy period in the Maths Department. All year groups have had their first end of term exam for this academic year and have been given feedback.

Year 11 also sat their first mock exam. As a reminder they will be doing another mock exam the last week of February. In addition to the Thursday after school Master Class, for year 11 we are shortly going to start a lunch break Maths Master Class session for selected students.

We have also started a Year 11 Further Maths class every Tuesday 3:15pm to 4pm.

Please do contact me if you have any questions. I can be emailed at <u>ntakhar@rooksheath.harrow.sch.uk</u>, or please email the relevant class teacher.

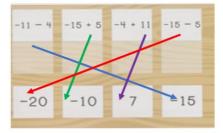
Manv thanks. Mrs N Takhar (Head of Mathematics)

Assessment Dates	Support		
Year 7: W/C 27th of MarchLOOK OUT FORYear 8: W/C 27th of MarchINFORMATIONYear 9: W/C 20th of MarchONE: 2 W/C	What	When	Where
Year 10: W/C 20th of MarchAssessmentYear 11: 2nd Mock seasonAssessmentPaper 1 (non-calculator) Monday Feb	Maths Homework Club	Every Thursday 3:10pm – 4:10pm	D2
20 th afternoon Paper 2 (calculator) Tuesday Feb 21 st afternoon Year 12: W/C 20 th of March Year 13: W/C 20 th of March	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
Homework	KS4 Maths Further Maths class (year 11)	Every Tuesday 3:15pm – 4:00pm	EF6
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	KS5 Maths Club (Years 12 and 13)	Every Thursday 3:10pm – 4:10pm	EF3
homework will be set on either MyMaths or Kerboodle.	UKMT Maths Challenge Club And STEM Club	Every Thursday 3:10pm – 4:10pm	EG7
Teachers will set the homework as an assignment on Teams, and you should also get a notification via Satchel One.			

	Learning this	term	?
The Knowled folders. GCSE Maths Level 2 Furth AS/A' level 1	ment we follow the schemes of learning f dge Organiser for each topic can be found e exam board - Edexcel her Maths exam board - AQA Maths exam board - Edexcel ne Year Groups are studying the following	d in Teams/S	
Year 7	 Place Value and Proportion Applications of numbers 	Year 12	VectorsDifferentiationIntegration
Year 8 Year 9	 Algebraic Thinking Developing numbers Handling data 		 Exponentials and Logarithms Representation of data
	 Fractions, Decimals and percentages Formulae and Functions 	Year 13	 Friction Projectile motion
Year 10	Circles and ConstructionRatio and Proportion		 Application of forces Further Kinematics Regression, correlation, and
Year 11	 Calculations 2 Graphs 2 Pythagoras and Trigonometry Combined events 		Hypothesis testsConditional probabilityNormal distribution

Exam Tip

Avoid Making silly mistakes by being focussed and knowing your basics well.



Divid	ding Fractio	ns
	$\frac{1}{3} \div \frac{3}{5}$	
Reciprocal:	Rewrite:	Multiply:
$\frac{3}{5} \times \frac{5}{3}$	$\frac{1}{3} \cdot \frac{5}{3}$	$\frac{1\cdot 5}{3\cdot 3} = \frac{5}{3}$

Simplify: b ³ x b ⁸	
Apply Powers Rule:	$a^m \times a^n = a^{m+n}$
$= b^3 \times b^8$	
$= b^{3+8}$	
= b ¹¹ √	

Symbol of the term



Symbol Name in Maths: Triple Bar Maths symbol meaning: Identical Equal sign with three lines, i.e. \equiv means identical to. This is similar to, but not exactly the same as, equals, i.e. =The difference between them is that \equiv is for used for equivalence in abstract context whereas = sign is used when we want to say "equal to" For example $2x + 3x \equiv 5x$ 2 + 3 = 5

Word of the term

Expression

In maths, an expression is a combination of numbers, variables, functions (such as addition, subtraction, multiplication or division etc.). Expressions can be thought of as similar to phrases. In language, a phrase on its own may include an action, but it doesn't make a complete sentence. Here are some examples of expressions **2x**, **n+7**, **m-3**.

These expressions express a mathematical operation, but they don't tell us the outcome of the operation or what the operation is equal to.

Career in Maths

Operational research

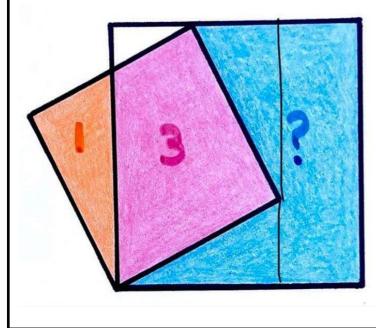
Operational research is a profession where initiative, creativity and enthusiasm are every bit as important as technical ability. People employed in OR are generally graduates with numerical degrees and many have followed courses with a significant mathematical, statistical or computing content opportunities.

Who employs OR analysts? The government

Industry Academia



Maths Puzzle of the term



Area of pink space is 3 Area of orange is 1. Both shapes are squares Calculate the area of blue shaded space.

"Success is not final, failure is not fatal: it is the *COURAGE* to continue that counts." *– Winston Churchill*

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
Ms V. Caullet