Year 10 information evening
27th February

Year Leader
Mr. Cresswell

Chaplaincy and Pastoral Leader
Mr. Adeyemi

The Maths Team

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What is coming up?

Year 10 PPEs – 11th March 6 days
Non Uniform Days – 08/05
Work Related Learning Day – 10/07
Thorpe Park Reward Trip Day – 11/07
Payments due by 1st May
Sports Day 12/07

Meet the Mathematics Department

Head of Department

Seconds in Department

If you'd like to contact us, email:
FirstName.LastName@st-pauls.org.uk

Miss NaTasha Clark

Miss Amy Ong

Mrs Saima Osman

Learning Objectives:
- National Picture for Mathematics
- Steps Proforma
- Revision & Progression

Keywords:
- MIOR
- MathsWatch
- Revision

Prior Learning:
- itsLearning

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Mr Thomas Hutchful

Mrs Upenyu Makamba

Mr Pedro Teixeira

Miss Zoe Ong

Ms Tricia Matthews
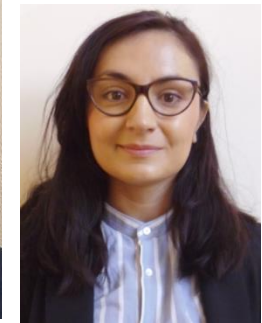
Mrs Marina Apostu

Mr John Thaxter

Mrs Mary Fernando

Mrs Penny Kam

Mr Anthony Oifoh

Mrs Helen Matcham

Mrs Coral Godber

Mrs Jayshree Kapadia

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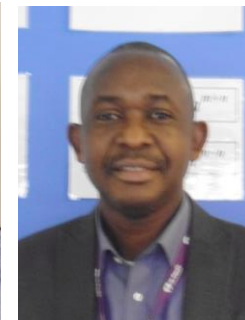**Keywords:**
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What we aim to cover tonight:

- National Picture for Mathematics – what's happening?

- Steps Proforma – how do we know if we're on track?

- Revision & Progression – how do we make the most of this resource?

Year 10 Information Evening

Quiz time…

What exam board will be using for our Mathematics GCSEs in 2025?

a) AQA – because that's what we're doing now

b) Who knows?

c) Wait, our REAL Mathematics exams are next year???

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What exam board will be using for our Mathematics GCSEs in 2025?

a) AQA – because that's wh~~...~~

b) Who knows?

c) Wait, our exams are~~...~~

We review the exam board that we use all the time. This year we are trialling OCR papers for the Foundation tier.

The content of Mathematics is the same for all exam boards so we don't need to change what we teach if we change boards.

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Quiz time…

A grade 4 on a higher paper is better than a grade 5 on the foundation paper

a) True – everyone knows higher is better than foundation

b) False – a 5 is higher than a 4. That's basic Mathematics

c) True – because everyone will know I've done foundation forever

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Quiz time…

A grade 4 on a higher paper foundation paper

a) True – everyone knows high

b) False – a 5 is higher than a 4. That's basic Mathematics

c) True – because everyone will know I've done foundation forever

You only ever write down the grade, not the tier.

Future employers will not know what tier you did unless you tell them.

Getting the best chance of the best grade is the most important thing.

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Quiz time…

Why is there stuff I don't know on my Mathematics exam?

a) Because there will always be Mathematics left for you to learn

b) Because the way the exam board has set up the tiers you don't need to know everything to access the grade you want to get

c) Because Mathematics teachers are mean

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Learn...
- Na... Ma...
- St...
- Re... Pr...

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It's important to get used to seeing questions that you don't recognise.

All that matters is that you are doing YOUR best.

...here stuff I don't know...

...there will a...

The foundation tier covers grades 1-5 and the higher tier covers grades 4-9.

If you are working towards a grade 4 on either tier there will be lots of Mathematics on the paper that you don't need to access.

b) Because the way the exam board has set up the tiers you don't need to know everything to access the grade you want to get

c) Because Mathematics teachers are mean

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Quiz time…

How many marks can I get wrong and still get the top grade on the tier?

a) None at all, you must be perfect

b) It changes every year but about 10-30 across the 3 papers

c) It changes every year but about 20-60 across the 3 papers

Year

Quiz time…

How many marks can I g... ...the tier?

a) None at all, you must ...

b) It changes every year ... papers

c) It changes every year but about 20-60 across the 3 papers

> You don't have to be perfect.
>
> Even if there are questions on the paper you've never seen before you can still access the highest grade on that tier.

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Exam					Grade								
Board	Month	Year	Tier	Total	9	8	7	6	5	4	3	2	1
AQA	June	2023	F	240					189	158	117	76	35
AQA	June	2023	H	240	214	186	158	125	92	59	42		

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Quiz time…

My grade hasn't changed at all since last year. Does that mean I've made no progress?

a) Maybe. Have you been doing your best in class and on your homework?

b) Maybe. The exams have got a lot harder so maybe you're improving but the goalposts have moved?

c) Maybe. Have you spoken to your teacher about this?

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Quiz time…

My grade hasn't ch
I've made no prog

> It could be any of these!
>
> Standards have changed significantly over recent years.
>
> Talking to your teacher is the best thing you can do to find out!

a) Maybe. Have you been doing your best in class and on your homework?

b) Maybe. The exams have got a lot harder so maybe you're improving but the goalposts have moved?

c) Maybe. Have you spoken to your teacher about this?

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National Picture for Mathematics

Foundation

Exam					Grade				
Board	Month	Year	Tier	Total	5	4	3	2	1
AQA	June	2017	F	240	156	124	91	59	27
AQA	June	2023	F	240	189	158	117	76	35

Higher

Exam					Grade						
Board	Month	Year	Tier	Total	9	8	7	6	5	4	3
AQA	June	2017	H	240	189	157	125	98	72	46	33
AQA	June	2023	H	240	214	186	158	125	92	59	42

Steps Proforma

All Year 10 classes have been given an A4 Progress Ladder.

This records their target grade, but also each PPE pupils will complete between Year 10 and 11.

Our aim is that this will enable pupils to see the long-term vision for their grade, improving with each exam paper.

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Progress Ladder
Steps to success in Mathematics

Year 11 Maths GCSE Goals	
P1 Target	
P2 Target	
P3 Target	
Target Grade:	

Break down the raw marks needed for your target grade

Advent 1 Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Lent Year 10	Actual	P1	P2	P3
	Expected	P1	P2	P3

Advent Year 10	Actual	P1	P2
	Expected	P1	P2

How will you meet this target?

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Progress Ladder
Steps to success in Mathematics

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Year 11 Maths GCSE Goals	
P1 Target	
P2 Target	
P3 Target	
Target Grade:	

Lent Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Advent 2 Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Advent 1 Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Lent Year 10	Actual	P1	P2
	Expected	P1	P2

Advent Year 10	Actual	P1	P2
	Expected	P1	P2

How will you meet this target?

How many do you need for your PPEs to ensure you build up to this?

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Year 11 Maths GCSE Goals	
P1 Target	
P2 Target	
P3 Target	
Target Grade:	

Lent Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Advent 2 Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Advent 1 Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Lent Year 10	Actual	P1	P2
	Expected	P1	P2

Advent Year 10	Actual	P1	P2
	Expected	P1	P2

How will you meet this target?

How many can you improve by in Lent?

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Year 11 Maths GCSE Goals	
P1 Target	
P2 Target	
P3 Target	
Target Grade:	

Lent Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Advent 2 Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Advent 1 Year 11	Actual	P1	P2	P3
	Expected	P1	P2	P3

Lent Year 10	Actual	P1	P2
	Expected	P1	P2

Advent Year 10	Actual	P1	P2
	Expected	P1	P2

How will you meet this target?

How many more marks per paper will you need by May?

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Revision & Progression

We have given each pupil a booklet listing each topic that will be covered this academic year, along with the context in which we will explore the topic in.

Mathematics Department

Student Name	
Tier	
Mathematics Teacher	

Progress Checks:

Progress Check	Effort	Independent Learning	Target
1			
2			
3			
4			

Maths and Languages & Maths and Geography Tier 3	✓
Construct and interpret plans, elevations and nets of 3D shapes	
Measure and draw lines, to the nearest mm	
Make accurate drawings of triangles using a ruler and protractor	
Apply formulae to calculate area of rectangles, triangles	
Apply ratio to real contexts and problems, including conversion	
Convert between units of measure in the same system	
Interpret maps and scale drawings	
Use three-figure bearings to specify direction	
Use the standard ruler and compass constructions	
Add, subtract, multiply, divide negative numbers, decimals, fractions	
Worked with terminating decimals and their corresponding fractions	

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Revision & Progression

The booklet breaks down each topic into boxes that build on each other. This is to show pupils how we build on the topic throughout the year and how the topics are linked with others.

Our goal is that these booklets become a revision guide that pupils can use both now and in the future.

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Simplify expressions using the **laws of indices**	
Science	
Use **positive integer powers and roots**. Recognise powers of 2, 3, 4, 5.	Calculate with **roots, and with integer indices**
Science	Science
Use **BIDMAS**	
ICT	