



THE JAMES YOUNG HIGH SCHOOL



BGE Evening
September 2018
S3 Maths Workshop



S3 Maths Lessons



- S3 pupils get 4 periods of Maths a week.



- There are 210 pupils in the year and they are organised into 9 classes.





S3 Maths Classes

- We arrange classes based on prior learning during S1 and S2.
- The current structure is as follows:

3B1	2 classes Equally strong	3B2	CfE Level 4+
3B3	2 classes Equally strong	3B4	CfE Level 4+
3B5	2 classes Equally strong	3B6	CfE Level 4+
3B7	2 classes Equally strong	3B8	CfE Level 4
	3B9		CfE Level 3+

S3 Courses – CfE Level 4+



CfE Level 4+ - S3 YEAR PLANNER

JUNE

4 weeks = 16 periods

NEGATIVE NOS (4)

SKILLS REVIEW (4)

STATISTICS (6)

NAT4 - Numeracy Test (2)

AUGUST - OCTOBER

9 weeks = 36 periods

STATISTICS (2)

BASICS REVIEW (4)

PROBABILITY (3)

SKILLS REVIEW (3)

EQUATION OF A LINE 1 (3)

NAT4 - Expressions & Formulae Test (2)

AREA + VOLUME (8)

QUADRATIC EXPANSION 1 (2)

QUADRATIC FACTORISATION 1 (2)

NUMBER PATTERNS (2)

ROTATIONAL SYMMETRY (2)

OCTOBER - DECEMBER

8 weeks = 32 periods

TRIGONOMETRY (PYTHAG) (9)

SKILLS REVIEW (8)

ANGLES (6)

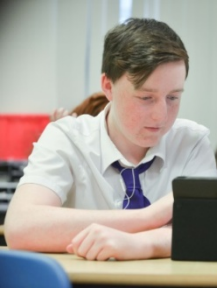
NAT4 - Relationships Test (2)

EQUATIONS REVIEW (3)

NAT4 - Value Added Test (4)



S3 Courses – CfE Level 4+



JANUARY - MARCH

12 weeks = 48 periods

MONEY MATTERS (6)

USES OF PROPORTION (11)

SIMILAR SHAPES (6)

FRACTIONS (6)

STANDARD FORM (4)

SHAPE (6)

QUADRATIC EXPANSION 2 (7)

Sun Distance (2)

APRIL - MAY

6 weeks = 24 periods

QUADRATIC FACTORISATION 2 (7)

NAT5 - Expressions and Formulae Test

EQUATION OF A LINE 2 (8)

SURDS + INDICES 1 (4)

- The times are a guideline only. Individual classes will run at a pace determined by the needs of the pupils in the class.

S3 Courses – CfE Level 4

CfE Level 4 S3 YEAR PLANNER

JUNE

[NMM]	Whole numbers	(13)	[NMM]	Rounding	(3)
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AUGUST - OCTOBER

[NMM]	Decimals	(8)	[NMM]	Percentages	(5)
[NMM]	Negative numbers	(5)	[NMM]	Fractions, Decimals & Percentage	(3)
[NMM]	Fractions	(5)	[NMM]	Measurement	(4)

OCTOBER - DECEMBER

[NMM]	Time	(6)	[IH]	Probability	(2)
[SSM]	Scale	(2)	[IH]	Statistics (Drawing Graphs&Chart	(5)
				NUMERACY UNIT ASSESSMENT	(3)

[NMM]	Money topics	(7)	[NMM]	Wages & Salaries (CH6)	(6)
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S3 Courses – CfE Level 4

JANUARY - MARCH

[NMM]	Proportion	(4)	[IH]	Tables and Handling Data	(3)
[IH]	Statistics (Interpreting Graphs&Ch	(6)		MM&D UNIT ASSESSMENT	
[NMM]	Area & Perimeter	(5)	[SSM]	Directions	(3)
[NMM]	Volume	(6)	[NMM]	Time Revision	(2)
[NMM]	Patterns & Formulae	(3)		S,S&M UNIT ASSESSMENT	

The priority is to try and achieve the **Nat 4 Numeracy Unit**.

However, here are some extra topics that should be covered first if possible:

[NMM]	Expressions & Equations
[SSM]	Angles
[NMM]	Tolerance

APRIL - MAY

NAT 4 NUMERACY UNIT



S3 Courses – CfE Level 3+

S3 CfE Level 3+

Note: the Standard Resource is MIA 3+

JUNE

Whole Numbers **MIA 3+ Ch1**

4 weeks

- 4 Operations
- BODMAS
- Rounding to nearest 10, whole number
- Square numbers

AUGUST - OCTOBER

Coordinates **Worksheets/Mathswise 3**

2 weeks

- Comfortably use coordinates in first quadrant (reading off, plotting)
- Extend to 4 quadrants

Scales **MIA 3+ Ch5**

2 weeks

- Able to work out how many "steps"
- Reading scales not always starting at zero
- Able to read measurements from a ruler, jug or scales.



S3 Courses – CfE Level 3+

Temperature **MIA 3+ Ch5/Worksheets**

1 week

- Able to read temperatures from a thermometer (+/-)
- Carry out basic temperature calculations using a number line



Division **Worksheets/Tarsia**

1 week

- Basic division involving times tables
- Setting out division sums involving 3 digit dividends



Fractions **MIA 3+ Ch6**

1 week

- Fraction of a quantity with unitary numerator
- Changing between fractions and percentages



OCTOBER - DECEMBER

Time **MIA 3+ Ch8**

2 weeks

- Writing dates
- 12 and 24 hour time
- Basic time Intervals
- Reading and constructing basic timetables
- Days in the month (extension)



Revision – Mid Year Test – 1 week



S3 Courses – CfE Level 3+

Algebra **MIA 3+ Ch14**

2 weeks

- Equations
- Substitution



JANUARY – MARCH

Symmetry **Worksheets**

3 weeks

- Line symmetry
- Tiling
- Rotational symmetry



Whole Numbers **Worksheets**

1 week

- Revision of 4 operations/BODMAS



Decimals **Worksheets**

1 week

- 4 operations





S3 Courses – CfE Level 3+

- Rounding to nearest whole number, 1 d.p.



Fractions **Worksheets**

1 week

- Equivalent/Simplifying fractions
- Revision of fraction of a quantity
- Fraction of a quantity with a non-unitary numerator



Percentages **MIA 3+ Ch6**

1 week

- Non-calculator and calculator
- Percentage increase and decrease



Area and Volume **Worksheets**

1 week

- Finding area of shapes by counting boxes
- Finding volume of objects by counting cubes





S3 Courses – CfE Level 3+



Charts and Tables **MIA 3+ Ch9**

1 week

- Able to extract information for charts and tables and use it to solve problems

APRIL - MAY



Revision – End of Year Test – 2 weeks

Graphs **MIA 3+ Ch9**

2 weeks

- Drawing and interpreting bar and line graphs



Negative Numbers **Worksheets**

2 weeks

- Revision of temperature
- Adding negatives
- Subtracting negatives - extension



Progression into S4 and beyond



Maths Curriculum Assessment Map				
S1	S2	S3	S4	S5
CfE Level 3+	CfE Level 4	CfE Level 4+	National 5	Higher
Profile	November Numeracy EXTENSION	Nat 4 E&F, Nat 4 Rel, Nat 4 AV	Nat 5 Rel, Nat 5 Apps	Higher Assessments
November Numeracy	February Info Handling EXTENSION	Nat 5 E&F		
February Info Handling	End of Year Main			
End of Year Calculator	Nat 4 Numeracy (June of S3)			
CfE Level 3	CfE Level 3+	CfE Level 4	National 4	National 5
Profile	November Numeracy	Nat 3 Assessments	Nat 4 E&F, Nat 4 Rel, Nat 4 AV	Nat 5 Rel, Nat 5 Apps
November Numeracy	February Info Handling	Nat 4 Numeracy	Nat 5 E&F (or Nat 5 Numeracy)	Nat 5 E&F (or Nat 5 Numeracy)
February Info Handling	End of Year Main			
End of Year Calculator	Nat 3 Numeracy (June of S3)			
CfE Level 2/ (Alternative tests)	CfE Level 3 (Alternative tests)	CfE Level 3+	National 3	National 4
Profile	November Numeracy	S2 November Numeracy	Nat 3 Assessments	Nat 4 E&F, Nat 4 Rel, Nat 4 AV
November Numeracy	February Info Handling	S2 February Info Handling	Nat 4 Numeracy	Nat 5 E&F (or Nat 5 Numeracy)
February Info Handling	End of Year Main	S2 End of Year Main		
End of Year Calculator		Nat 3 Numeracy (June of S4)		





S3 Homework

- Homework will be set on a regular basis throughout S3, usually one assignment per week, and may be topic related or mixed questions designed to maintain/extend basic skills.
- All homework assignment information and deadlines will be uploaded onto Show My Homework. We would ask for your help and support in ensuring homework is done in a timely manner and to the best of your child's ability.

Numeracy Methods Booklet



- Your child received a Numeracy Methods booklet during S1 which outlines the way that Numeracy is taught in The James Young.
- The intention is that it will help to reinforce Numeracy Methods by using a consistent approach and make pupils and parents more aware of the cross-curricular nature of numeracy skills.



Extra Support



Your own child's Maths teacher will be available during and after class to offer additional support.



We do also have more formal supported study sessions run by Mr Whelan (F70)

Monday 3.35pm to 4.20pm



Tuesday 3.35pm to 4.45pm





Online Support

- Maths Revision
- <http://www.mathsrevision.com/>
- Mr Barton Maths
- <http://mrbartonmaths.com/topics/>
- Prestwick Academy
- <http://www.prestwick.sayr.sch.uk/mathematics.html>



Online Support



Maths Department Twitter account provides information and links to Rigour Maths and other Maths Challenges and Revision.



@JYHSMaths





Positive attitude

- Being good, or indeed bad at Maths isn't hereditary.
- Anyone can improve and make good progress, half the battle is believing that and not giving up when things get tough.
- Be as positive about Maths as you possibly can be, even if you found it difficult yourself. Children can pick up traits of Maths anxiety from their parents.
- Contact the school if you need any support.



Contact details

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Our learning Our community Our future