



# THE JAMES YOUNG HIGH SCHOOL



BGE Evening  
October 2019  
S3 Maths Workshop



# S3 Maths Lessons



- S3 pupils get 4 periods of Maths a week.
- There are 209 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		CfE Level 4+
3B6	2 classes Equally strong	3B7	CfE Level 4
3B8	2 classes Equally strong	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+



<b><u>JANUARY - MARCH</u></b>	<b><u>12 weeks = 48 periods</u></b>
MONEY MATTERS (6)	USES OF PROPORTION (11)
SIMILAR SHAPES (6)	FRACTIONS (6)
STANDARD FORM (4)	SHAPE (6)
QUADRATIC EXPANSION 2 (7)	Sun Distance (2)
<b><u>APRIL - MAY</u></b>	<b><u>6 weeks = 24 periods</u></b>
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)
				<b>NUMERACY UNIT ASSESSMENT</b>	(3)
[NMM]	Money topics	(7)	[NMM]	Wages & Salaries (CH6)	(6)

# S3 Courses – CfE Level 4

## JANUARY - MARCH

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

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
<b>CfE Level 3+</b>	<b>CfE Level 4</b>	<b>CfE Level 4+</b>	<b>National 5</b>	<b>Higher</b>
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)			
<b>CfE Level 3</b>	<b>CfE Level 3+</b>	<b>CfE Level 4</b>	<b>National 4</b>	<b>National 5</b>
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)			
<b>CfE Level 2/ (Alternative tests)</b>	<b>CfE Level 3 (Alternative tests)</b>	<b>CfE Level 3+</b>	<b>National 3</b>	<b>National 4</b>
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**



**Thursday 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