

2022

Mater Dei Catholic College  
Subject Scope and Sequence

KLA: Mathematics  
(1 week = 3 hours)

Year 7

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
1	<b>Computation with Integers and Linear Relationships (18 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-11NA Life Skills: MALS-4NA, MALS-5NA, MALS-6NA, MALS-7NA, MALS-10NA, MALS-11NA						<b>Algebraic Techniques (12 Indicative hours)</b> MA4-1WM, MA4-3WM, MA4-8NA, MA4-11NA Life Skills: MALS-18NA					
2	<b>Time (9 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-15MG Life Skills: MALS-20MG, MALS-21MG, MALS-22MG, MALS-23MG, MALS-24MG		<b>Measurement and Computation Length, Perimeter and Area (9 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-12MG, MA4-13MG Life Skills: MALS-25MG, MALS-26MG, MALS-29MG			<b>Understanding Fractions, Decimals and Percentages (18 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-5NA Life Skills: MALS-8NA, MAL-9NA						
3	<b>Understanding Fractions, Decimals &amp; Percentages Cont.</b>		<b>Computation with Fractions, Decimals, Percentages (14 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-5NA Life Skills: MALS-8NA, MALS-9NA				<b>Equations (10 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-10NA Life Skills: MALS-19NA					
4	<b>Introducing Indices (9 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-9NA Life Skills: N/A		<b>Angle Relationships (11 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-18MG Life skills: N/A			<b>Probability (10 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-21SP Life Skills: MALS-38SP, MALS-39SP						

Assessments	Task 1: Student Learning Summary	Task 2: Student Learning Summary	Formative
Weights	49%	49%	2%
Outcomes Assessed	MA4-1WM, MA4-2WM, MA4-3WM, MA4-4NA, MA4-8NA	MA4-1WM, MA4-2WM, MA4-3WM, MA4-4NA, MA4-8NA	

# 2022

## Mater Dei Catholic College Subject Scope and Sequence

**KLA: Mathematics**  
(2 week = 5 hours)

# Year 8

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1		<b>Algebraic Techniques (7 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-8NA, MA4-9NA Life Skills: MALS-18NA			<b>Indices (5 Indicative hours)</b> See Algebraic Techniques		<b>Ratios and Rates (13 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-6NA, MA4-7NA Life Skills: MALS-19NA				
2	<b>Equations (10 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-10NA Life Skills: MALS-19NA				<b>Measurement (10 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-12MG, MA4-13MG, MA4-14MG, MA4-15MG, MA4-16MG Life Skills: MALS-20MG, MALS-21MG, MALS-22MG, MALS-23MG, MALS-24MG, MALS-25MG, MALS-26MG, MALS-28MG, MALS-29MG, MALS-30MG, MALS-31MG		<b>Task 1</b>	<b>Pythagoras (5 Indicative hours)</b> See Measurement			
3	<b>Angles Relationships and Properties of Geometrical Figures (10 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-17MG, MA4-18MG Life Skills: MALS-30MG, MALS-31MG			<b>Percentages and Financial Mathematics (10 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-5NA, MA4-6NA Life Skills: MALS-8NA, MALS-9NA, MALS-12NA, MALS-13NA, MALS-14NA, MALS-15NA, MALS-16NA, MALS-17NA			<b>Linear Relationships (10 Indicative hours)</b> MA4-1WM, MA4-3WM, MA4-11NA Life Skills: MALS-32MG, MALS-33MG, MALS-34MG				
4	<b>Linear Relationships</b> MA4-1WM, MA4-3WM, MA4-11NA Life Skills: MALS-32MG, MALS-33MG, MALS-34MG		<b>Task 2</b>			<b>Data Collection, Representation and Analysis (12 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-3WM, MA4-19MG, MA4-20SP Life Skills: MALS-35SP, MALS-36SP, MALS-37SP			<b>Transformations and Congruence (8 Indicative hours)</b> MA4-1WM, MA4-2WM, MA4-11NA, MA4-17MG Life Skills: MALS-30MG, MALS-31MG		

Assessments	Task 1: Student Learning Summary	Task 2: Student Learning Summary	Formative Tasks
Weights	49%	49%	2%
Outcomes Assessed	MA4-1WM, MA4-2WM, MA4-3WM, MA4-4NA, MA4-8NA	MA4-1WM, MA4-2WM, MA4-3WM, MA4-4NA, MA4-8NA	

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Mater Dei Catholic College  
Subject Scope and Sequence

KLA: Mathematics  
(1 week = 3 hours)

Year 9.1

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1							Task 1				
	<b>Tools of the Trade (30 Indicative hours)</b> MA4-2WM, MA4-4NA, MA4-8NA, MA5.1-9MG Life Skills:										
2					Task 2						
	<b>Build Make Create (45 Indicative hours)</b> MA4-7NA, MA4-16MG, MA5.1-8MG, MA5.1-10MG, MA5.1-11MG Life Skills:										
3					Task 3						
	<b>Build Make Create (45 Indicative hours)</b> MA4-7NA, MA4-16MG, MA5.1-8MG, MA5.1-10MG, MA5.1-11MG Life Skills:					<b>Money Matters (45 Indicative hours)</b> MA4-7NA, MA5.1-4NA, MA5.1-12SP Life Skills:					
4				Task 4							
	<b>Money Matters (45 Indicative hours)</b> MA4-7NA, MA5.1-4NA, MA5.1-12SP Life Skills:										

Assessments	Task 1: The Cookie Sale	Task 2: School Redesign	Task 3:	Task 4: Common Test	Formative Tasks
Weights	24%	25%	20%	29%	2%
Outcomes Assessed	MA4-2WM, MA4-4NA, MA4-8NA, MA5.1-9MG	MA4-7NA, MA5.1-8MG, MA5.1-11MG		All outcomes up to this point may be assessed.	

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Mater Dei Catholic College  
Subject Scope and Sequence

KLA: Mathematics  
(1 week = 3 hours)

Year 9.2

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
1		<b>Expressions and Equations (15 Indicative hours)</b> MA4-8NA, MA4-10NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-18NA, MALS-19NA					<b>Area, Surface Area and Volume (15 Indicative hours)</b> MA4-12MG, MA4-13MG, MA4-14MG, MA5.1-8MG, MA5.2-11MG, MA5.2-12MG, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-25MG, MALS-26MG, MALS-28MG, MALS-29MG, MALS-30MG, MALS-31MG					
2	<b>Integers, Fractions, Decimals, Ratios and Rates (15 Indicative hours)</b> MA4-4NA, MA4-5NA, MA4-7NA, MA5.1-9MG, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-4NA, MALS-5NA, MALS-6NA, MALS-7NA, MALS-8NA, MALS-9NA, MALS-10NA, MALS-11NA, MALS-19NA					<b>Linear Relationships (12 Indicative hours)</b> MA4-11NA, MA5.1-6NA, MA5.2-9NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-32MG, MALS-33MG, MALS-34MG			<b>Financial Mathematics</b>			
3	<b>Financial Mathematics (12 Indicative hours)</b> MA4-5NA, MA4-6NA, MA5.1-4NA, MA5.2-4NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-12NA, MALS-13NA, MALS-14NA, MALS-15NA, MALS-16NA, MALS-17NA		<b>Right Angled Triangles (12 Indicative hours)</b> MA4-16MG, MA5.1-10MG, MA5.2-13MG, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: N/A				<b>Indices (12 Indicative hours)</b> MA4-9NA, MA5.1-5NA, MA5.2-7NA, MA5.1-9MG, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: N/A					
4	<b>Indices (12 Indicative hours)</b>	<b>Probability and Data (12 Indicative hrs)</b> MA4-19SP, MA4-20SP, MA5.1-12SP, MA5.2-15SP, MA4-21SP, MA5.1-13SP, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-35SP, MALS-36SP, MALS-37SP, MALS-38SP, MALS-39SP				<b>Properties of Geometrical Figures (9 Indicative hours)</b> MA4-17MG, MA4-18MG, MA5.1-11MG, MA5.2-14MG, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-30MG, MALS-31MG, MALS-32MG, MALS-33MG, MALS-34MG,			<b>Quadratic Expressions and Algebraic Fractions (6 Indicative hours)</b> MA4-8NA, MA5.2-6NA Life Skills: N/A			

Assessments	Task 1: HOTmaths	Task 2: Assignment	Task 3: Learning Logs + Test	Task 4: Common Test	Formative Tasks
Weights	29%	20%	20%	29%	2%
Outcomes Assessed	MA5.2-1WM, MA5.2-2WM, MA4-8NA, MA4-10NA	MA4-12MG, MA5.1-8MG, MA5.2-1WM, MA5.2-2WM, MA5.2-11MG, MA5.2-12MG	MA5.2-13MG	MA5.2-4NA, MA5.2-13MG, MA5.2-7-NA	

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Mater Dei Catholic College  
Subject Scope and Sequence

KLA: Mathematics  
(1 week = 3 hours)

Year 9.3

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1		<b>Computation and Financial Mathematics (18 Indicative hours)</b> MA5.1-1WM, MA5.1-2WM, MA5.1-3WM, MA5.2-1WM, MA5.2-2WM, MA5.1-9MG, MA5.1-4NA, MA5.2-4NA, MA5.2-6NA						<b>Task 1</b>	<b>Expressions, Equations &amp; Inequalities (12 Indicative hours)</b> MA5.3-1WM, MA5.3-2WM, MA5.3-3WM, MA5.2-8NA, MA5.3-7NA		
2	<b>Right Angled Triangles (15 Indicative hours)</b> MA5.1-1WM, MA5.1-2WM, MA5.1-3WM, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM, MA5.1-10MG, MA5.2-13MG, MA5.3-15MG				<b>Task 2</b>	<b>Indices &amp; Surds (12 Indicative hours)</b> MA5.1-1WM, MA5.1-2WM, MA5.1-3WM, MA5.2-2WM, MA5.2-3WM, MA5.3-1WM, MA5.3-2WM, MA5.3-3WM, MA5.1-5NA, MA5.2-7NA, MA5.3-6NA, MA5.1-9MG			<b>Linear Relationships (12 Indicative hours)</b> MA5.1-1WM, MA5.1-2WM, MA5.1-3WM, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM, MA5.1-6NA, MA5.2-9NA, MA5.2-5NA, MA5.3-8NA		
3	<b>Linear Relationships (12 Indicative hours)</b>		<b>Quadratic Expressions and Algebraic Fractions (18 Indicative hours)</b> MA5.2-1WM, MA5.2-2WM, MA5.2-3WM, MA5.3-2WM, MA5.2-6NA, MA5.3-5NA					<b>Task 3</b>	<b>Measurement (12 Indicative hours)</b> MA5.1-1WM, MA5.1-2WM, MA5.1-3WM, MA5.2-1WM, MA5.2-2WM, MA5.1-8NA, MA5.2-11MG, MA5.2-12MG, MA5.3-13MG, MA5.3-14MG		
4	<b>Measurement (12 Indicative hours)</b>		<b>Task 4</b>	<b>Probability and Single Variable Data Analysis (12 Indicative hours)</b> MA5.1-1WM, MA5.1-2WM, MA5.1-3WM, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM, MA5.1-13WM, MA5.1-12SP, MA5.2-17WM, 5.2-15SP			<b>Prop. of Geometrical Fig. (6 Indicative hours)</b> MA5.1-1,2,3WM, MA5.2-1,2,3WM, MA5.3-1,2,3WM, MA5.1-11WM, MA5.2-14WM, MA5.3-16MG		<b>Quadratic Eqns and Graphs of Parabolas (6 Indicative hours)</b> MA5.1-1, MA5.1-2, WM, MA5.1-3WM, MA5.2-1WM, MA5.2-2WM, MA5.1-7WM, MA5.2-8WM, MA5.2-10NA, MA5.3-7WM, MA5.3-9NA		

Assessments	Task 1: HOTmaths	Task 2: Assignment	Task 3: Learning Log + Test	Task 4: Common Test	Formative Tasks
Weights	20%	29%	20%	29%	2%
Outcomes Assessed	MA5.3-2WM, MA5.2-8NA, MA5.3-7NA	MA5.3-2WM, MA5.3-3WM	MA5.3-1WM, MA5.3-5NA, MA5.3-15MG	All outcomes up until this point could be assessed	

2022

Mater Dei Catholic College  
Subject Scope and Sequence

KLA: Mathematics  
(1 week = 3 hours)

Year 10.1

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1							Task 1				
	<b>Decision Makers (30 Indicative hours)</b> MA5.1-12SP, MA5.1-13SP, MA5.2-15SP Life Skills:										
2				Task 2							
	<b>From Here to There (36 Indicative hours)</b> MA5.1-6NA, MA5.2-9NA, MA5.1-10MG, MA5.2-13MG Life Skills:										
3					Task 3						
	<b>From Here to There (36 Indicative hours)</b> MA5.1-6NA, MA5.2-9NA, MA5.1-10MG, MA5.2-13MG Life Skills:	<b>Theme Park (30 Indicative hours)</b> MA5.1-7NA, MA5.2-4NA, MA5.2-10NA Life Skills:									
4				Task 4							
	<b>Theme Park (30 Indicative hours)</b> MA5.1-7NA, MA5.2-4NA, MA5.2-10NA Life Skills:				<b>In-Depth STEM Engagement (12 Indicative hours)</b>			<b>Optional Topic(12 Indicative hours)</b> Life Skills:			

Assessments	Task 1: The Cookie Sale	Task 2: School Redesign	Task 3:	Task 4: Common Test	Formative Tasks
Weights	24%	25%	20%	29%	2%
Outcomes Assessed	MA4-2WM, MA4-4NA, MA4-8NA, MA5.1-9MG	MA4-7NA, MA5.1-8MG, MA5.1-11MG		All outcomes up to this point may be assessed.	

2022

Mater Dei Catholic College  
Subject Scope and Sequence

KLA: Mathematics  
(1 week = 3 hours)

Year 10.2

	1	2	3	4	5	6	7	8	9	10	11	
1		<b>Financial Mathematics (12 Indicative hours)</b> MA5.1-4NA, MA5.2-4NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-12NA, MALS-13NA, MALS-14NA, MALS-15NA, MALS-16NA, MALS-17NA			<b>Algebraic Expressions and Indices (12 Indicative hours)</b> MA5.2-6NA, MA5.1-5NA, MA5.2-7NA, MA5.1-9MG, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-18NA			<b>Task 1</b>	<b>Equations (12 Indicative hours)</b> MA4-10NA, MA5.2-8NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-19NA			
2	<b>Equations (12 Indicative hours)</b> MA4-10NA, MA5.2-8NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-19NA		<b>Task 2</b>			<b>Right Angled Triangles (12 Indicative hours)</b> MA5.1-10MG, MA5.2-13MG, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: N/A			<b>Measurement (12 Indicative hours)</b> MA5.1-8MG, MA5.2-11MG, MA5.2-12MG, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-25MG, MALS-26MG, MALS-28MG, MALS-29MG, MALS-30MG, MALS-31MG			
3	<b>Single &amp; Bivariate Statistics (12 Indicative hours)</b> MA5.1-12SP, MA5.2-15SP, MA5.2-16SP, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-35SP, MALS-36SP, MALS-37SP, MALS-38SP, MALS-39SP			<b>Task 3</b>			<b>Linear Relationships (12 Indicative hours)</b> MA5.1-6NA, MA5.2-9NA, MA5.2-5NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-32MG, MALS-33MG, MALS-34MG			<b>Probability (12 Indicative hours)</b>		
4	<b>Probability (12 Indicative hours)</b> MA5.1-13SP, MA5.2-17SP, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-38SP, MALS-39SP		<b>Task 4</b>			<b>Non-Linear Relationships (6 Indicative hours)</b> MA5.1-7NA, MA5.2-10NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: N/A			<b>Properties of Geometrical Figures (9 Indicative hours)</b> MA5.1-11MG, MA5.2-14MG, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM Life Skills: MALS-30MG, MALS-31MG, MALS-32MG, MALS-33MG, MALS-34MG		<b>Quadratic Expressions, &amp; Quadratic Equations (6 Indicative hours)</b> MA5.2-6NA, MA5.2-8NA, MA5.1-7NA, MA5.2-10NA Life Skills: N/A	
<b>Assessments</b>	<b>Task 1: HotMaths</b>		<b>Task 2: Assignment</b>			<b>Task 3: Learning Log + Test</b>			<b>Task 4: Common Test</b>		<b>Formative Tasks</b>	
<b>Weights</b>	20%		29%			20%			29%		2%	
<b>Outcomes Assessed</b>	MA5.1-4NA, MA5.2-4NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM, MA5.2-6NA, MA5.1-5NA					MA5.2-6NA, MA5.1-5NA, MA5.2-7NA, MA5.1-9MG, MA4-10NA, MA5.2-8NA, MA5.2-1WM, MA5.2-2WM, MA5.2-3WM			All outcomes up until this point could be assessed			

2022

Mater Dei Catholic College  
Subject Scope and Sequence

KLA: Mathematics  
(1 week = 3 hours)

Year 10.3

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
1		<b>Indices and Surds (15 Indicative hours)</b> MA5.3-1WM, MA5.3-2WM, MA5.3-3WM, MA5.3-6NA					<b>Trigonometry (15 Indicative hours)</b> MA5.3-1WM, MA5.3-2WM, MA5.3-3WM, MA5.3-15MG					
2		Task 1	<b>Quadratic Expressions and Quadratic Equations (15 Indicative hours)</b> MA5.3-2WM, MA5.3-5NA			Task 2	<b>Measurement (15 Indicative hours)</b> MA5.3-13MG, MA5.3-14MG					
3	<b>Single Variable and Bivariate Statistics (12 Indicative hours)</b> MA5.3-1WM, MA5.3-18SP, MA5.3-19SP			<b>Expressions, Equations and Linear Relationships (18 Indicative hours)</b> MA5.3-2WM, MA5.3-5NA, MA5.3-8NA								Task 3
4	<b>Probability (9 Indicative hours)</b>			Task 4	<b>Properties of Geometrical Figures (9 Indicative hours)</b> MA5.3-1WM, MA5.3-2WM, MA5.3-3WM, MA5.3-16MG			<b>Option Topics: (12 Indicative hours)</b> Circle Geometry, Functions, Logarithms and Polynomials MA5.3-1WM, MA5.3-2WM, MA5.3-3WM, MA5.3-17MG, MA5.3-9NA, MA5.3-4NA, MA5.3-12NA, MA5.3-11NA, MA5.3-10NA				

Assessments	Task 1: Assignment	Task 2: HOTmaths	Task 3: Learning Log + Test	Task 4: Common Test	Formative Tasks
Weights	20%	29%	20%	29%	2%
Outcomes Assessed	MA5.3-1WM, MA5.3-2WM, MA5.3-WM	MA5.3-15MG, MA5.3-5NA	MA5.3-1WM, MA5.3-2WM, MA5.3-3WM, MA5.3-15MG, MA5.3-6NA	MA5.3-2WM, MA5.3-18SP, MA5.3-8NA	



# 2022

## Mater Dei Catholic College Subject Scope and Sequence

**KLA: Numeracy**  
(1 week = 4 hours)

# Year 11

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
1		<b>Whole Numbers (4 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-3.1	<b>Data, Graphs and Tables (3 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.3, N6-3.1, N6-3.2	<b>Distance, Area and Volume (8 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.2, N6-3.1, N6-3.2 Task 1								
		<b>Operations with Whole Numbers (13 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-3.2								<b>The NRMT process (Part 2) 10 Indicative hours</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-2.2, N6-2.3, N6-3.1, N6-3.2		
2	<b>Time (6 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.2, N6-3.1, N6-3.2	<b>Data, Graphs and Tables (4 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.3, N6-3.1, N6-3.2				<b>Fractions and Decimals (4 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-3.1, N6-3.2	<b>Operations with Fractions and Decimals (11 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-3.1, N6-3.2					
		<b>The NRMT Process (Part 3) (10 Indicative Hours)</b>					<b>The Probability of Everyday Events (5 Indicative hours)</b> N6-1.1, N6-1.2, N6-2.3, N6-3.1, N6-3.2			<b>Investigating the NRMT (Part 1) (6 Indicative Hours)</b> Task 2		
3	<b>Operations with Fractions and Decimals Cont.</b>		<b>Length, Mass and Capacity (10 Indicative Hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.2, N6-3.1, N6-3.2 Task 3									
	<b>Metric Relationships (5 Indicative hours)</b> N6-1.1, N6-1.2, N6-2.2, N6-3.1		<b>Investigating the NRMT (Part 2) (20 Indicative Hours)</b>									
<b>Assessments</b>			<b>Task 1: Portfolio</b>			<b>Task 2 Investigative Assignment</b>			<b>Task 3 Research Task</b>			
<b>Weights</b>			40%			30%			30%			
<b>Part A: Knowledge and Understanding</b>			20%			10%			20%			
<b>Part B Skills</b>			20%			20%			10%			
<b>Outcomes Assessed</b>			N6-1.1, N6-1.2, N6-2.2, N6-2.3, N6-3.1			N6-1.2, N6-1.3, N6-2.2, N6-3.1			N6-1.2, N6-2.3, N6-3.2			

# 2022

## Mater Dei Catholic College Subject Scope and Sequence

**KLA: Mathematics  
Standard**  
(1 week = 4 hours)

# Year 11

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1		<b>Formulae &amp; Equations and Linear Relationships (18 Indicative hours)</b> MS11-1, MS11-2, MS11-6, MS11-9, MS11-10 Life Skills: MALS6-1, MAL6-7, MAL6-8, MAL6-13, MA6-14					<b>Task 1</b>	<b>Applications of Measurement (22 Indicative hours)</b> MS11-3, MS11-4, MS11-9, MS11-10 Life Skills: MALS6-3, MALS6-4, MALS6-13, MALS6-14			
2	<b>Data Analysis (20 Indicative hours)</b> MS11-2, MS11-7, MS11-9, MS11-10 Like Skills: MALS6-2, MALS6-9, MALS6-13, MALS6-14					<b>Task 2</b>	<b>Money Matters (28 Indicative hours)</b> MS11-2, MS11-5, MS11-6, MS11-9, MS11-10 Life Skills: MALS6-2, MALS6-5, MALS6-6, MALS6-7, MALS6-8, MALS6-13, MALS6-14				
3	<b>Money Matters</b>	<b>Working with Time (12 Indicative hours)</b> MS11-3, MS11-4, MS11-9, MS11-10 Life Skills: MALS6-3, MALS6-4, MALS6-13, MALS6-14			<b>Rel. Freq. &amp; Probability (12 Indicative hours)</b> MS11-8,9,10 Life Skills: MALS6-10,1MALS3,MALS14		<b>Task 3</b>			<b>Prob</b>	
4											
<b>Assessments</b>			<b>Task 1 Topic Test</b>			<b>Task 2 Investigative Assignment</b>			<b>Task 3 End of Preliminary Exam</b>		
<b>Weights</b>			30%			30%			40%		
<b>Part A: Fluency, Communication and</b>			20%			10%			20%		
<b>Part B Reasoning, Problem Solving and</b>			10%			20%			20%		
<b>Outcomes Assessed</b>			MS11-1, MS11-6, MS11-10			MS11-2, MS11-5, MS11-6, MS11-9, MS11-10			MS11-1, MS11-2, MS11-3, MS11-4, MS11-5, MS11-6, MS11-7, MS11-8, MS11-9, MS11-10		

**2022**

**Mater Dei Catholic College**  
Subject Scope and Sequence

**KLA: Mathematics Advanced**  
(1 week = 4 hours)

**Year 11**

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1		<b>Algebraic Techniques</b> (20 Indicative hours) MA11-1, MA11-9				<b>Equations and Inequalities</b> (12 Indicative hours) MA11-1, MA11-2, MA11-8, MA11-9			<b>Functions</b> (16 Indicative hours) MA11-1, MA11-2, MA11-8, MA11-9		
2	<b>Functions</b> (16 Indicative hours) MA11-1, MA11-2, MA11-8, MA11-9		<b>Trigonometric Functions</b> (20 Indicative hours) MA11-1, MA11-3, MA11-4, MA11-8, MA11-9			<b>Statistical Analysis and Probability</b> (16 Indicative hours) MA11-7, MA11-8, MA11-9					
3	<b>Stats &amp; Prob</b> (16 hours) MA11-7, MA11-8, MA11-9		<b>Calculus</b> (12 Indicative hours) MA11-1, MA11-5, MA11-8, MA11-9			<b>Exponential and Log Functions</b> (8 Indicative hours) MA11-6, MA11-8, MA11-9					
4											

Assessments	Task 1 Investigation Assignment	Task 2 Topic Test	Task 3 Preliminary Exams
<b>Weights</b>	30%	30%	40%
<b>Part A: Understanding, Fluency and Communication</b>	10%	20%	20%
<b>Part B: Problem Solving, Reasoning and Justification</b>	20%	10%	20%
<b>Outcomes Assessed</b>	MA11-1, MA11-2, MA11-8, MA11-9	MA11-1, MA11-2, MA11-3, MA11-4, MA11-8, MA11-9	MA 11-1, MA11-2, MA11-3, MA11-4, MA11-5, MA11-6, MA11-7, MA11-8, MA11-9

# 2022

## Mater Dei Catholic College Subject Scope and Sequence

**KLA: Mathematics  
Extension 1**  
(1 week = 2 hours)

# Year 11

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1		<b>Polynomials</b> (10 Indicative hours) ME11-1, ME11-2, ME11-6, ME11-7					<b>Task 1</b>	<b>Inequalities</b> (6 Indicative hours) ME11-1, ME11-2, ME11-6, ME11-7		<b>Combinatorics</b> (10 Indicative hours) ME11-5, ME11-6, ME11-7	
2	<b>Combinatorics</b> (10 Indicative hours) ME11-5, ME11-6, ME11-7			<b>Functions</b> (8 Indicative hours) ME11-1, ME11-2, ME11-6, ME11-7			<b>Task 2</b>	<b>Inverse Functions</b> (6 Indicative hours) ME11-1, ME11-3, ME11-6, ME11-7			
3	<b>Trigonometric Functions</b> (6 Indicative hours) ME11-1, ME11-3, ME11-6, ME11-7			<b>Calculus</b> (10 Indicative hours) ME11-1, ME11-4, ME11-6, ME11-7				<b>Task 3</b>		<b>Calculus</b>	
4											

Assessments	Task 1 Topic Test	Task 2 Investigative Assignment	Task 3 End of Preliminary Exams
<b>Weights</b>	30%	30%	40%
<b>Part A: Understanding, Fluency and Communication</b>	10%	20%	20%
<b>Part B: Problem Solving, Reasoning and Justification</b>	20%	10%	20%
<b>Outcomes Assessed</b>	ME11-1, ME11-2, ME11-7	ME11-5, ME11-6, ME11-7	ME11-1, ME11-2, ME11-3, ME11-4, ME11-5, ME11-6, ME11-7

2022

Mater Dei Catholic College  
Subject Scope and Sequence

KLA: 12 Numeracy  
(1 week = 4 hours)

Year 12

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
4	<b>Percentages (3 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-2.5, N6-3.1, N6-3.2		<b>Finance (8 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.4, N6-3.1, N6-3.2									
	<b>Operations with Numbers (4 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-3.1, N6-3.2		<b>Location, Time and Temperature (4 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.2, N6-2.5, N6-3.1, N6-3.2									
	<b>Applying NRMT (12 Indicative hours)</b>											
							<b>Task 1</b>					
1	<b>Location, Time and Temperature (8 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.2, N6-2.5, N6-3.1, N6-3.2											
	<b>Space and Design (12 Indicative hours)</b> N6-1.1, N6-1.2, N6-2.5, N6-3.2											
	<b>Applying NRMT (25 Indicative hours)</b>											
2	<b>Statistics and Probability (7 Indicative Hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.3, N6-3.1, N6-3.2		<b>Rates and Ratio ( 8 Indicative Hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-3.1, N6-3.2			<b>Statistics and Probability (8 Indicative hours)</b> N6-1.1, N6-1.2, N6-2.2, N6-3.1						
	<b>Exploring the NRMT (20 Indicative Hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-2.2, N6-2.3, N6-2.4, N6-2.5, N6-3.1, N6-3.2											
							<b>Task 2</b>					
	<b>Rates and Ratio ( 8 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-3.1, N6-3.2		<b>Exploring the NRMT (20 Indicative Hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-2.2, N6-2.3, N6-2.4, N6-2.5, N6-3.1, N6-3.2									
3	<b>Rates and Ratio ( 8 Indicative hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-3.1, N6-3.2		<b>Exploring the NRMT (20 Indicative Hours)</b> N6-1.1, N6-1.2, N6-1.3, N6-2.1, N6-2.2, N6-2.3, N6-2.4, N6-2.5, N6-3.1, N6-3.2									
							<b>Task 3</b>					

Assessments	Task 1: Research Task	Task 2 Investigative Assignment	Task 3 Project
<b>Weights</b>	40%	30%	30%
<b>Part A: Knowledge and Understanding</b>	20%	10%	20%
<b>Part B Skills</b>	20%	20%	10%
<b>Outcomes Assessed</b>	N6-1.1, N6-1.2, N6-2.1, N6-2.4, N6-3.1	N6-1.1, N6-1.2, N6-2.1, N6-3.1	N6-1.2, N6-2.1, N6-2.2, N6-2.5

# 2022

## Mater Dei Catholic College Subject Scope and Sequence

**KLA: Mathematics  
Standard 1**  
(1 week = 4 hours)

# Year 12

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
4	<b>Types of Relationships ( 24 Indicative hours)</b> MS1-12-1, MS1-12-6, MS1-12-9, MS1-12-10 Life Skills: MALS6-1, MALS6-7, MALS6-8, MALS6-13, MALS6-14					<b>Statistical analysis (16 Indicative hours)</b> MS1-12-2, MS1-12-7, MS1-12-9, MS1-12-10 Life Skills: MALS6-2, MALS6-7, MALS6-8, MALS6-13, MALS6-14					Task 1	
1	<b>Depreciation (20 Indicative hours)</b> MS1-12-5, MS1-12-9, MS1-12-10 Life Skills: MALS6-5, MALS6-6, MALS6-13, MALS6-14					<b>Investments and loans (20 Indicative hours)</b> MS1-12-5, MS1-12-9, MS1-12-10 Life Skills: MALS6-5, MALS6-6, MALS6-13, MALS6-14					Task 2	
2	<b>Rates (20 Indicative hours)</b> MS1-12-3, MS1-12-9, MS1-12-10 Life Skills: MALS6-3, MALS6-13, MALS6-14					<b>Right-angled Trigonometry (20 Indicative hours)</b> MS1-12-3, MS1-12-4, MS1-12-9, MS1-12-10 Life Skills: MALS6-3, MALS6-4, MALS6-13, MALS6-14					Task 3	
3	<b>Scale Drawing (20 Indicative hours)</b> MS1-12-3, MS1-12-4, MS1-12-9, MS1-12-10 Life Skills: MALS6-3, MALS6-4, MALS6-13, MALS6-14					<b>Networks concepts (20 Indicative hours)</b> MS1-12-8, MS1-12-9, MS1-12-10 Life Skills: MALS6-11, MALS6-12, MALS6-13, MALS6-14						

Assessments	Task 1 Topic Test	Task 2 Finance Project	Task 3 Open Book Test
<b>Weights</b>	30%	40%	30%
<b>Part A: Understanding, Fluency and</b>	20%	10%	20%
<b>Part B Reasoning, Problem Solving and</b>	10%	30%	10%
<b>Outcomes Assessed</b>	MS1-12-1, MS1-12-6, MS1-12-9, MS1-12-10	MS1-12-5, MS1-12-9, MS1-12-10	MS1-12-3, MS1-12-4, MS1-12-10

# 2022

## Mater Dei Catholic College Subject Scope and Sequence

**KLA: Mathematics  
Standard 2**  
(1 week = 4 hours)

# Year 12

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
4	<b>Simultaneous Linear Equations (12 Indicative hours)</b> MS2-12-1, MS2-12-6, MS2-12-9, MS2-12-10 Life Skills: MALS6-1, MALS6-7, MALS6-8, MALS6-13, MALS6-14			<b>Modelling Non-Linear Relationships (16 Indicative hours)</b> MS2-12-1, MS2-12-6, MS2-12-9, MS2-12-10 Life Skills: MALS6-1, MALS6-7, MALS6-8, MALS6-13, MALS6-14			Task 1	<b>Investments and Loans (12 Indicative hours)</b> MS2-12-5, MS2-12-9, MS2-12-10 Life Skills: MALS6-5, MALS6-6, MALS6-13, MALS6-14				
1	<b>Annuities (12 Indicative hours)</b> MS2-12-5, MS2-12-9, MS2-12-10 Life Skills: MALS6-5, MALS6-6, MALS6-13, MALS6-14			<b>Non-Right Angled Trigonometry (12 Indicative hours)</b> MS2-12-3, MS2-12-4, MS2-12-9, MS2-12-10 Life Skills: MALS6-3, MALS6-4, MALS6-13, MALS6-14			<b>Bivariate Data Analysis (20 Indicative hours)</b> MS2-12-2, MS2-12-7, MS2-12-9, MS2-12-10 Life Skills: MALS6-2, MALS6-9, MALS6-13, MALS6-14					
2	<b>Bivariate Data Analysis (20 Indicative hours)</b>	Task 2			<b>Networks Concepts (16 Indicative hours)</b> MS2-12-8, MS2-12-9, MS2-12-10 Life Skills: MALS6-11, MALS6-12, MALS6-13, MALS6-14			<b>Rates and ratios (12 Indicative hours)</b> MS2-12-3, MS2-12-4, MS2-12-9, MS2-12-10 Life Skills: MALS6-3, MALS6-4, MALS6-13, MALS6-14		Task 3		<b>Critical Path Analysis (16 Indicative hours)</b> MS2-12-8, MS2-12-9, MS2-12-10 Life Skills: MALS6-11, MALS6-12, MALS6-13, MALS6-14
3	<b>Critical Path Analysis (16 Indicative hours)</b> MS2-12-8, MS2-12-9, MS2-12-10 Life Skills: MALS6-11, MALS6-12, MALS6-13, MALS6-14		Task 4			<b>The Normal Distribution (12 Indicative hours)</b> MS2-12-2, MS2-12-7, MS2-12-9, MS2-12-10 Life Skills: MALS6-2, MALS6-9, MALS6-13, MALS6-14		<b>HSC Preparation</b>				

Assessments	Task 1 Topic Test	Task 2 Seminar	Task 3 Topic Test and Learning Logs	Task 4 Trial Exam
<b>Weights</b>	25%	20%	25%	30%
<b>Part A: Understanding, Fluency</b>	15%	5%	15%	15%
<b>Part B Reasoning, Problem Solving</b>	10%	15%	10%	15%
<b>Outcomes Assessed</b>	MS2-12-1, MS2-12-6, MS2-12-9, MS2-12-10	MS2-12-9, MS2-12-10	MS2-12-5, MS2-12-8, MS2-12-9, MS2-12-10	MS2-12-1, MS2-12-2, MS2-12-3, MS2-12-4, MS2-12-5, MS2-12-6, MS2-12-7, MS2-12-8, MS2-12-9, MS2-12-10

2022

Mater Dei Catholic College  
Subject Scope and Sequence

KLA: Mathematics  
Advanced  
(1 week = 4 hours)

Year 12

	1	2	3	4	5	6	7	8	9	10	11
4	<b>Differential Calculus (16 Indicative hours)</b> MA12-3, MA12-6, MA12-9, MA12-10				<b>Applications of Differentiation (12 Indicative hours)</b> MA12-3, MA12-6, MA12-9, MA12-10			Task 1 <b>Integral Calculus</b>			
1	Task 2 <b>Integral Calculus (24 Indicative hours)</b> MA12-3, MA12-7, MA12-9, MA12-10			<b>Further Functions (12 Indicative hours)</b> MA12-1, MA12-9, MA12-10			<b>Further Trig Functions (8 Indicative hours)</b> MA12-1, MA12-5, MA12-9, MA12-10		<b>Statistical Analysis (20 Indicative hours)</b> MA12-8, MA12-9, MA12-10		
2	Task 3 <b>Statistical Analysis (20 Indicative hours)</b> MA12-8, MA12-9, MA12-10			<b>Sequences and Series (16 Indicative hours)</b> MA12-2, MA12-4, MA12-9, MA12-10				<b>Financial Mathematics (20 Indicative hours)</b> MA12-2, MA12-4, MA12-9, MA12-10			
3	<b>Financial Mathematics</b>		Task 4		<b>Probability - Random Variables (12 Indicative hours)</b> MA12-8, MA12-9, MA12-10			<b>Preparation for the HSC</b>			

Assessments	Task 1 Topic Test	Task 2 Topic Test	Task 3 Modelling Assignment	Task 4 Trial Exam
<b>Weights</b>	30%	20%	20%	30%
<b>Part A: Understanding, Fluency and Communication</b>	10%	15%	10%	15%
<b>Part B: Reasoning, Problem Solving and Justification</b>	20%	5%	10%	15%
<b>Outcomes Assessed</b>	MA12-3, MA12-6, MA12-9, MA12-10	MA12-3, MA12-9, MA12-10	MA12-1, MA12-5, MA12-8, MA12-9, MA12-10	MA12-1, MA12-2, MA12-3, MA12-4, MA12-5, MA12-6, MA12-7, MA12-8, MA12-9, MA 12-10



**2022**

**Mater Dei Catholic College**  
Subject Scope and Sequence

**KLA: Mathematics**  
**Extension 1**  
(1 week = 2 hours)

**Year 12**

	1	2	3	4	5	6	7	8	9	10	11	
4	<b>Vectors</b> (10 Indicative hours) ME12-2, ME12-6, ME12-7					<b>Motion and Projectile Motion</b> (10 Indicative hours) ME12-2, ME12-6, ME12-7						
1						<b>Task 1</b>						
1						<b>Further Calculus Skills</b> (12 Indicative hours) ME12-1, ME12-4, ME12-6, ME12-7					<b>Differential Equations</b> (8 Indicative hours) ME12-1, ME12-4, ME12-6, ME12-7	
2	<b>Diff Eqs</b>	<b>Trigonometric Functions</b> (8 Indicative hours) ME12-3, ME12-6, ME12-7				<b>Task 2</b>		<b>Proof</b> (6 Indicative hours) ME12-1, ME12-6, ME12-7			<b>Statistical Analysis</b> (8 Indicative hours) ME12-5, ME12-6, ME12-7	
2							<b>Task 3</b>					
3	<b>Statistical Analysis</b> (8 Indicative hours) ME12-5, ME12-6, ME12-7		<b>Task 4</b>		<b>Preparation for the HSC</b>							

Assessments	Task 1 Topic Test	Task 2 Investigative Assessment	Task 3 Modelling Assignment	Task 4 Trial Exam
<b>Weights</b>	20%	30%	20%	30%
<b>Part A: Understanding, Fluency and Communication</b>	15%	10%	10%	15%
<b>Part B: Reasoning, Problem Solving and Justification</b>	5%	20%	10%	15%
<b>Outcomes Assessed</b>	ME12-2, ME12-7	ME12-2, ME12-6, ME12-7	ME12-1, ME12-3, ME12-4, ME12-6, ME12-7	ME12-1, ME12-2, ME12-3, ME12-4, ME12-5, ME12-6, ME12-7

2022

Mater Dei Catholic College  
Subject Scope and Sequence

KLA: Mathematics  
Extension 2  
(1 week = 2 hours)

Year 12

Term/Week	1	2	3	4	5	6	7	8	9	10	11
4	<b>Complex Numbers</b> (20 Indicative hours) MEX12-1, MEX12-4, MEX12-7, MEX12-8							Task 1			
1	<b>Vectors</b> (10 Indicative hours) MEX12-3, MEX12-7, MEX12-8				<b>Proof</b> (10 Indicative hours) MEX12-1, MEX12-2, MEX12-7, MEX12-8						Task 2
2	<b>Calculus</b> (16 Indicative hours) MEX12-1, MEX12-5, MEX12-7, MEX12-8							<b>Mechanics</b> (12 indicative hours) MEX12-6, MEX12-7, MEX12-8		Task 3	
3	<b>Mechanics</b> (12 indicative hours) MEX12-6, MEX12-7, MEX12-8		Task 4		<b>Mechanics</b> (12 indicative hours) MEX12-6, MEX12-7, MEX12-8		<b>Preparation for the HSC</b>				

Assessments	Task 1 Topic Test	Task 2 Investigative Assignment	Task 3 Modelling Assessment	Task 4 Trial Exam
<b>Weights</b>	20%	30%	20%	30%
<b>Part A: Understanding, Fluency and Communication</b>	15%	10%	10%	15%
<b>Part B: Reasoning, Problem Solving and Justification</b>	5%	20%	10%	15%
<b>Outcomes Assessed</b>	MEX12-1, MEX12-4, MEX12-7, MEX12-8	MEX12-1, MEX12-2, MEX12-3, MEX12-7, MEX12-8	MEX12-1, MEX12-5, MEX12-6, MEX12-7, MEX12-8	MEX12-1, MEX12-2, MEX12-3, MEX12-4, MEX12-5, MEX12-6, MEX12-7, MEX12-8