

2022

Mater Dei Catholic College
Subject Scope and Sequence

KLA: Science
(1 week = 3 hours)

Year 7

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1	Being a Scientist (15 hours) 1VA, 4WS, 6WS, 7WS Life Skills: SCLS-4WS, SCLS-6WS, SCLS-7WS					Solids, Liquids and Gases (15 hours) 1VA, 16CW, 4WS,5WS, 6WS, 7WS, 9WS Life Skills: SCLS-22CW, SCLS-4WS, SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-9WS					
2	Mixtures and Separation (15 hours) 1VA, 16 and 17 CW, 5WS, 6WS, 7WS, 8WS Life Skills: SCLS-22CW, SCLS-23CW, SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-8WS					Forces (15 hours) 1VA, 10PW, 11PW, 5WS, 6WS, 7WS, 9WS Life skills: SCLS-10PW, SCLS-11PW, SCLS-12PW, SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-9WS					
3	Ecology (15 hours) 1VA, 2VA, 3VA, 15LW, 13ES, 17CW, 5WS, 6WS, 7WS, 8WS, 9WS Life Skills: SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-13ES, SCLS-14ES, SCLS-15ES, SCLS-16ES, SCLS-22CW, SCLS-23CW, SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-8WS, SCLS-9WS					Cells and Classification (15 hours) 1VA, 14LW, 15LW, 5WS, 7WS, 9WS Life Skills: SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-5WS, SCLS-7WS, SCLS-9WS					
4	Heat, Light and Sound (15 hours) 1VA, 10PW, 11PW, 5WS, 6WS, 7WS, 9WS Life Skills: SCLS-10PW, SCLS-11PW, SCLS-12PW, SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-9WS					Our Earth (15 hours) 1VA, 12ES, 6WS, 7WS, 9WS Life Skills: SCLS-13ES, SCLS-14ES, SCLS-15ES, SCLS-16ES, SCLS-6WS, SCLS-7WS, SCLS-9WS					

Assessments	Task 1 Practical	Task 2 Practical	Task 3 SRP	Task 4 Yearly Exam	Formative Tasks
Weights	24%	25%	24%	25%	2%
Outcomes Assessed	6WS, 7WS, 9WS	4WS, 6WS, 7WS, 8WS, 9WS	4WS, 5WS, 6WS, 7WS, 8WS, 9WS	15LW, 13ES, 17CW, 14LW, 15LW, PW10, PW11, WS8, WS5	13ES, 16CW, 17CW, 14LW, 15LW, PW10, PW11, WS4-9

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Mater Dei Catholic College Subject Scope and Sequence

KLA: Science
(1 week = 2.5 hours)

Year 8

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1					Task 1						
	Scientific Skills (12.5 hours) 1VA, WS5, WS6, WS7, WS9 Life Skills: SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-9WS					Electricity (12.5 hours) 1VA, 10PW, 11PW, WS5, WS6, WS9 Life Skills: SCLS-10PW, SCLS-11PW, SCLS-12PW, SCLS-5WS, SCLS-6WS, SCLS-9WS					
2	Task 2										
	Body Systems (12.5 hours) 1VA, 14LW, 15LW, WS4, WS6, WS7, WS8, WS9 Life Skills: SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-4WS, SCLS-6WS, SCLS-7WS, SCLS-8WS, SCLS-9WS					Looking After Planet Earth (12.5 hours) 1VA, 2VA, 13ES, 15LW, 17CW, WS4, WS5, WS7, WS9 Life Skills: SCLS-13ES, SCLS-14ES, SCLS-15ES, SCLS-16ES, SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-22CW, SCLS-23CW, SCLS-4WS, SCLS-5WS, SCLS-7WS, SCLS-9WS					
3				Task 3							
	Atoms and Materials (12.5 hours) 1VA, 16CW, 17CW, WS6 Life Skills: SCLS-22CW, SCLS-23CW, SCLS-6WS					Cells and Microbes (12.5 hours) 1VA, 14LW, 15LW, WS4, WS6, WS7, WS9 Life Skills: SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-4WS, SCLS-6WS, SCLS-7WS, SCLS-9WS					
4			Task 4								
	Ecology (12.5 hours) 1VA, 2VA, 14LW, 15LW, 12ES, 13ES, WS7, WS8, WS9 Life Skills: SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-13ES, SCLS-14ES, SCLS-15ES, SCLS-16ES, SCLS-7WS, SCLS-8WS, SCLS-9WS					Astronomy (12.5 hours) 1VA, 12ES, WS5, WS7, WS9 Life Skills: SCLS-13ES, SCLS-14ES, SCLS-15ES, SCLS-16ES, SCLS-5WS, SCLS-7WS, SCLS-9WS					

Assessments	Task 1 SRP	Task 2 Exam	Task 3 Practical	Task 4 Final Exam	Formative Tasks
Weights	25%	24%	24%	25%	2%
Outcomes Assessed	4WS, 7WS, 8WS, 9WS	10PW, 11PW, WS7, WS9	6WS, 7WS, 8WS, 9WS, 16CW	16CW, 17CW, 14LW, 15LW, 12ES, 13ES, WS7-9	10PW, 11PW, 16CW, 17CW, 14LW, 15LW, 12ES, 13ES, WS4-9

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Year 9

Task 1

Atoms and The Periodic Table (15 hours)

1VA, 3VA, 16CW, 17CW, 7WS
Life Skills: SCLS-22CW, SCLS-23CW, SCLS-24CW, SCLS-7WS

Coordination and SRP (15 hours)

1VA, 2VA, 14LW, WS4, WS5, WS6, WS7, WS8, WS9
Life Skills: SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-4WS, SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-8WS, SCLS-9WS

Term/Week

Task 2

3

4

5

6

7

8

9

10

11

Plate Tectonics (15 hours)

1VA, 2VA, 12ES, 13ES, WS4, WS7, WS8, WS9
Life Skills: SCLS-13ES, SCLS-14ES, SCLS-15ES, SCLS-16ES, SCLS-4WS, SCLS-7WS, SCLS-8WS, SCLS-9WS

Health and Disease (15 hours)

1VA, 2VA, 14LW, 15LW, WS6, WS8, WS9
SCLS-6WS, SCLS-8WS, SCLS-9WS

Task 3

Electricity (15 hours)

1VA, 10PW, 11PW, WS4, WS5, WS6, WS7, WS8
Life Skills: SCLS-10PW, SCLS-11PW, SCLS-12PW, SCLS-4WS, SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-8WS

Earth Science (15 hours)

2VA, 11PW, 13ES, 8WS, 9WS
Life Skills: SCLS-10PW, SCLS-11PW, SCLS-12PW, SCLS-13ES, SCLS-14ES, SCLS-15ES, SCLS-16ES, SCLS-8WS, SCLS-9WS

Task 4

Light and Sound (15 hours)

1VA, 10PW, 11PW, WS6, WS7, WS8, WS9
Life Skills: SCLS-10PW, SCLS-11PW, SCLS-12PW, SCLS-6WS, SCLS-7WS, SCLS-8WS, SCLS-9WS

Ecosystems (15 hours)

1VA, 2VA, 11PW, 14LW, 15LW, WS4, WS5, WS7, WS8, WS9
Life Skills: SCLS-10PW, SCLS-11PW, SCLS-12PW, SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-4WS, SCLS-5WS, SCLS-7WS, SCLS-8WS, SCLS-9WS

Assessments

Task 1 SRP

Task 2 Exam

Task 3 Practical Task

Task 4 Final Exam

Formative Tasks

Weights

25%

24%

24%

25%

2%

Outcomes Assessed

4WS, 5WS, 6WS, 7WS, 8WS, 9WS

7WS, 8WS, 9WS, 16CW, 14LW

6WS, 7WS, 8WS, 9WS, 10PW

10PW, 11PW, 3ES, 7WS, 8WS, 9WS

16CW, 17CW, 12ES, 13ES, 14ES, 15ES, 16ES, 14LW, 15LW, 10PW, 11PW, 12PW, 9WS

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KLA: Science
(1 week = 3 hours)

Year 10

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
1	Investigating Science (15 hours) 1VA, 2VA, 4WS, 5WS, 6WS, 7WS, 8WS, 9WS Life Skills: SCLS-4WS, SCLS- 5WS, SCLS-6WS, SCLS-7WS, SCLS-8WS, SCLS-9WS				Task 1	Motion (15 hours) 1VA, 10PW, 11PW, WS4, WS5, WS6, WS7, WS8, WS9 Life Skills: SCLS-10PW, SCLS-11PW, SCLS-12PW, SCLS-4WS, SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-8WS, SCLS-9WS						
2	Task 2	Matter (15 hours) 1VA, 16CW, 9WS Life Skills: SCLS-22CW,SCLS-23CW, SCLS-24CW, SCLS-9WS				Genetics (15 hours) 1VA, 2VA, 3VA, 14LW, 15LW, WS7, WS8, WS9 Life Skills: SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-7WS, SCLS-8WS, SCLS-9WS						
3	Task 3		Chemical Reactions (15 hours) 1VA, 2VA, 3VA, 17CW, WS6, WS7 Life Skills: SCLS-22CW,SCLS-23CW,SCLS-24CW, SCLS-6WS, SCLS-7WS				Evolution (15 hours) 1VA, 14LW, 15LW, 17CW, WS5, WS6, WS7, WS8, WS9 Life Skills: SCLS-17LW, SCLS-18LW, SCLS-19LW, SCLS-20LW, SCLS-21LW, SCLS-22CW, SCLS-23CW, SCLS-24CW, SCLS-5WS, SCLS-6WS, SCLS-7WS, SCLS-8WS SCLS-9WS					
4	Task 4	The Universe (15 hours) 1VA, 12ES, 7WS, 9WS Life skills: SCLS-13ES, SCLS-14ES, SCLS-15ES, SCLS-16ES, SCLS-7WS, SCLS-9WS				Science's Greatest Hits (15 hours) 1VA, 2VA, 4-9WS Life Skills: SCLS-4-9WS						

Assessments	Task 1 Practical	Task 2 Exam	Task 3 Practical	Task 4 Yearly Exam	Formative Tasks
Weights	25%	24%	24%	25%	2%
Outcomes Assessed	WS7, WS9	7WS, 8WS, 9WS, 10PW, 11PW	6WS,7WS, 8WS, 9WS, 17CW	12ES, 14LW, 15LW, 17CW, 7WS, 8WS, 9WS	10PW, 11PW, 16CW, 17CW, 14LW, 15LW, 12ES, 4-9WS

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Mater Dei Catholic College
Subject Scope and Sequence

KLA: Biology
(1 week = 4 hours)

Year 11

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
1	Cells as the Basis of Life (26 hours) BIO 11/12-3, BIO 11/12-4, BIO11-8					Task 1	Organisation of Living Things (26 hours) BIO11/12-4, BIO11/12-7, BIO 11/12-6, BIO11-9		Task 2		Depth Study (15 hours)	
	Task 2		Organisations of Living Things BIO11/12-1, BIO11/12-3, BIO11/12-6, BIO11-8			Biological Diversity (26 hours) BIO11/12-1, BIO11/12-2, BIO11/12-7, BIO11-10						
2	Depth Study (15 hours) BIO11/12-1, BIO11/12-3, BIO11/12-6, BIO11/12-7, BIO11-8, BIO11-9		Organisations of Living Things BIO11/12-1, BIO11/12-3, BIO11/12-6, BIO11-8					Biological Diversity (26 hours) BIO11/12-1, BIO11/12-2, BIO11/12-7, BIO11-10				
	Biological Diversity BIO11/12-1, BIO11/12-2, BIO11/12-7, BIO11-10					Task 3						Ecosystem Dynamics (26 hours) BIO11/12-1, BIO11/12-2, BIO11/12-3, BIO11/12-4, BIO11/12-5, BIO11-11
3	Biological Diversity BIO11/12-1, BIO11/12-2, BIO11/12-7, BIO11-10					Ecosystem Dynamics (26 hours) BIO11/12-1, BIO11/12-2, BIO11/12-3, BIO11/12-4, BIO11/12-5, BIO11-11						
	4											

Assessments	Task 1 Practical	Task 2 Depth Study	Task 3 Exam
Knowledge and Understanding 40%	5%	15%	20%
Skills in Working Scientifically 60%	15%	25%	20%
Weights	20%	40%	40%
Outcomes Assessed	BIO11/12-3, BIO11/12-7, BIO11-8	BIO11/12-1, BIO11/12-3, BIO11/12-6, BIO11/12-7, BIO11-8, BIO11-9	BIO11/12-4, BIO11/12-5, BIO11/12-6, BIO11/12-7, BIO11-8, BIO11-9, BIO11-10, BIO11-11

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Mater Dei Catholic College Subject Scope and Sequence

KLA: Physics
(1 week = 4 hours)

Year 11

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
1	Kinematics (26 hours) PH11/12-2, PH11/12-3, PH11/12-4, PH11/12-5, PH11/12-6, PH11-8						Task 1	Dynamics (26 hours) PH11/12-2, PH11/12-4, PH11/12-6, PH11-9				
	Dynamics PH11/12-2, PH11/12-4, PH11/12-6, PH11-9			Depth Study (15 hours) PH11/12-1, PH11/12-2, PH11/12-3, PH11/12-4, PH11/12-5, PH11/12-7, PH11-8, PH11-9			Waves and Thermodynamics (26 hours) PH11/12-3, PH11/12-4, PH11/12-6, PH11/12-7, PH11-10					
2	Waves and Thermodynamics PH11/12-3, PH11/12-4, PH11/12-6, PH11/12-7, PH11-10						Electricity and Magnetism (26 hours) PH11/12-1, PH11/12-5, PH11/12-7, PH11-11					
	Waves and Thermodynamics PH11/12-3, PH11/12-4, PH11/12-6, PH11/12-7, PH11-10						Electricity and Magnetism (26 hours) PH11/12-1, PH11/12-5, PH11/12-7, PH11-11					
3	Waves and Thermodynamics PH11/12-3, PH11/12-4, PH11/12-6, PH11/12-7, PH11-10						Electricity and Magnetism (26 hours) PH11/12-1, PH11/12-5, PH11/12-7, PH11-11					
	Waves and Thermodynamics PH11/12-3, PH11/12-4, PH11/12-6, PH11/12-7, PH11-10						Electricity and Magnetism (26 hours) PH11/12-1, PH11/12-5, PH11/12-7, PH11-11					
4												

Assessments	Task 1 Practical	Task 2 Depth Study	Task 3 Preliminary Exam
Knowledge and Understanding 40%	5%	15%	20%
Skills in Working Scientifically 60%	15%	25%	20%
Weights	20%	40%	40%
Outcomes Assessed	PH11/12-2, PH11/12-3, PH11/12-5, PH11/12-7, PH11-8	PH11/12-1, PH11/12-3, PH11/12-6, PH11/12-7, PH11-8, PH11-9	PH11/12-4, PH11/12-5, PH11/12-6, PH11/12-7, PH11-8, PH11-9, PH11-10, PH11-11

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Mater Dei Catholic College Subject Scope and Sequence

KLA: Chemistry
(1 week = 4 hours)

Year 11

Term/Week	1	2	3	4	5	6	7	8	9	10	11
1	Properties and Structure of Matter (26 hours) CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-5, CH11/12-6 CH11/12-7, CH11-8 , CH11-9						Introduction to Quantitative Chemistry (26 hours) CH11/12-2, CH11/12-4, CH11/12-6, CH11-9		Task 1		
2	Introduction to Quantitative Chemistry CH11/12-2, CH11/12-4, CH11/12-6, CH11-9		Depth Study (15 hours) CH11-1, CH11-4, CH11-5, CH11-6 CH11-7 + one K/U					Task 2	Reactive Chemistry (26 hours) CH11/12-2, CH11/12-3, CH11/12-4, CH11-10		
3	Reactive Chemistry CH11/12-2, CH11/12-3, CH11/12-4, CH11-10		Drivers of Reactions (26 hours) CH11/12-1, CH11/12-5, CH11/12-6, CH11/12-7, CH11-11						Task 3		
4											

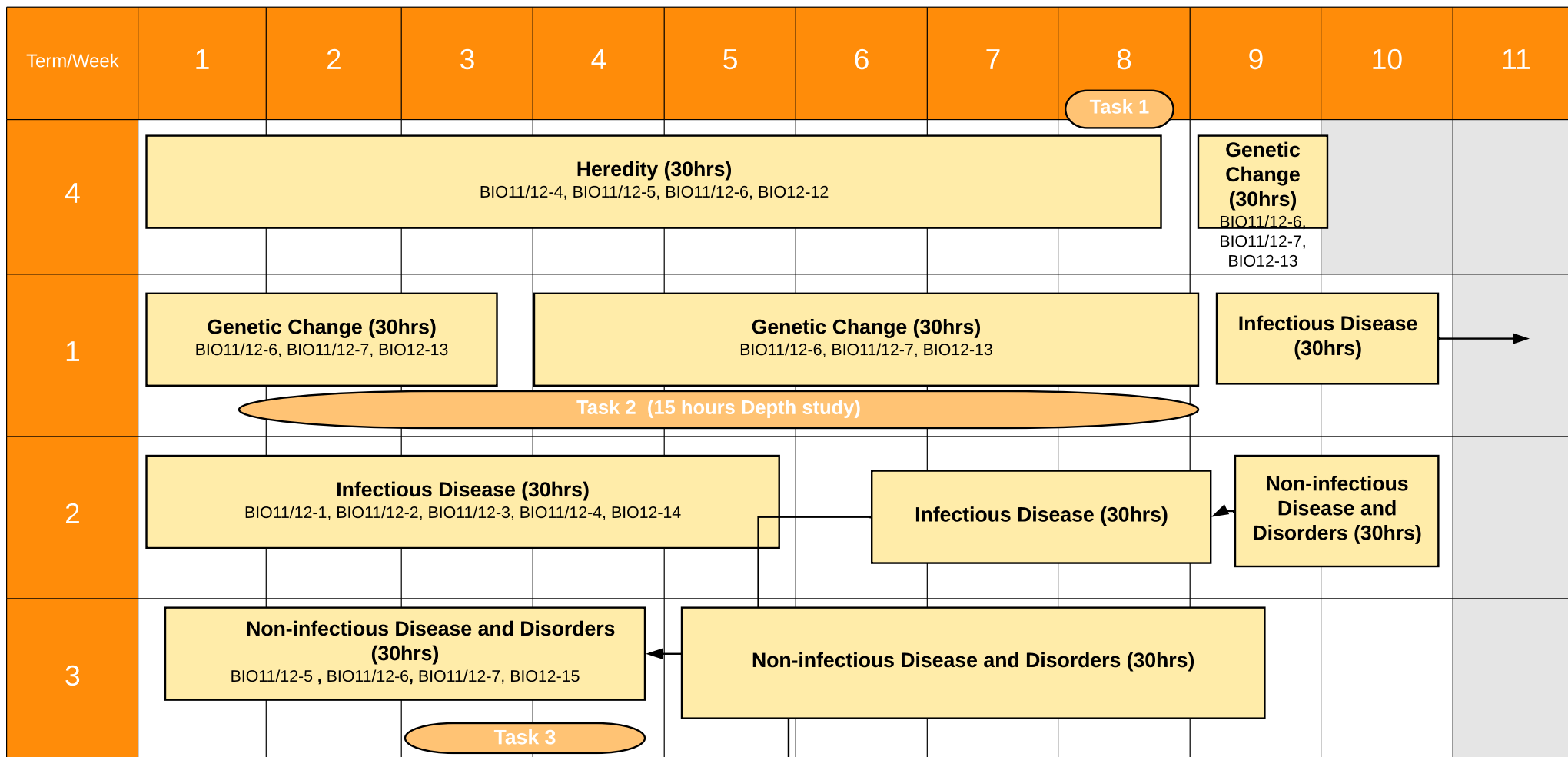
Assessments	Task 1 Practical	Task 2 Depth Study Report	Task 3 Preliminary Exam
Knowledge and Understanding 40%	10%	10%	20%
Skills in Working Scientifically 60%	20%	30%	10%
Weights	30%	40%	30%
Outcomes Assessed	CH11/12.3, CH11/12-4, CH11/12-6, CH11/12-9,	CH11/12-1, CH11/12-4, CH11/12-5,, CH11/12-7, CH11-10	CH11/12-1 to CH11/12-7 and CH11-8 to CH11-11

2022

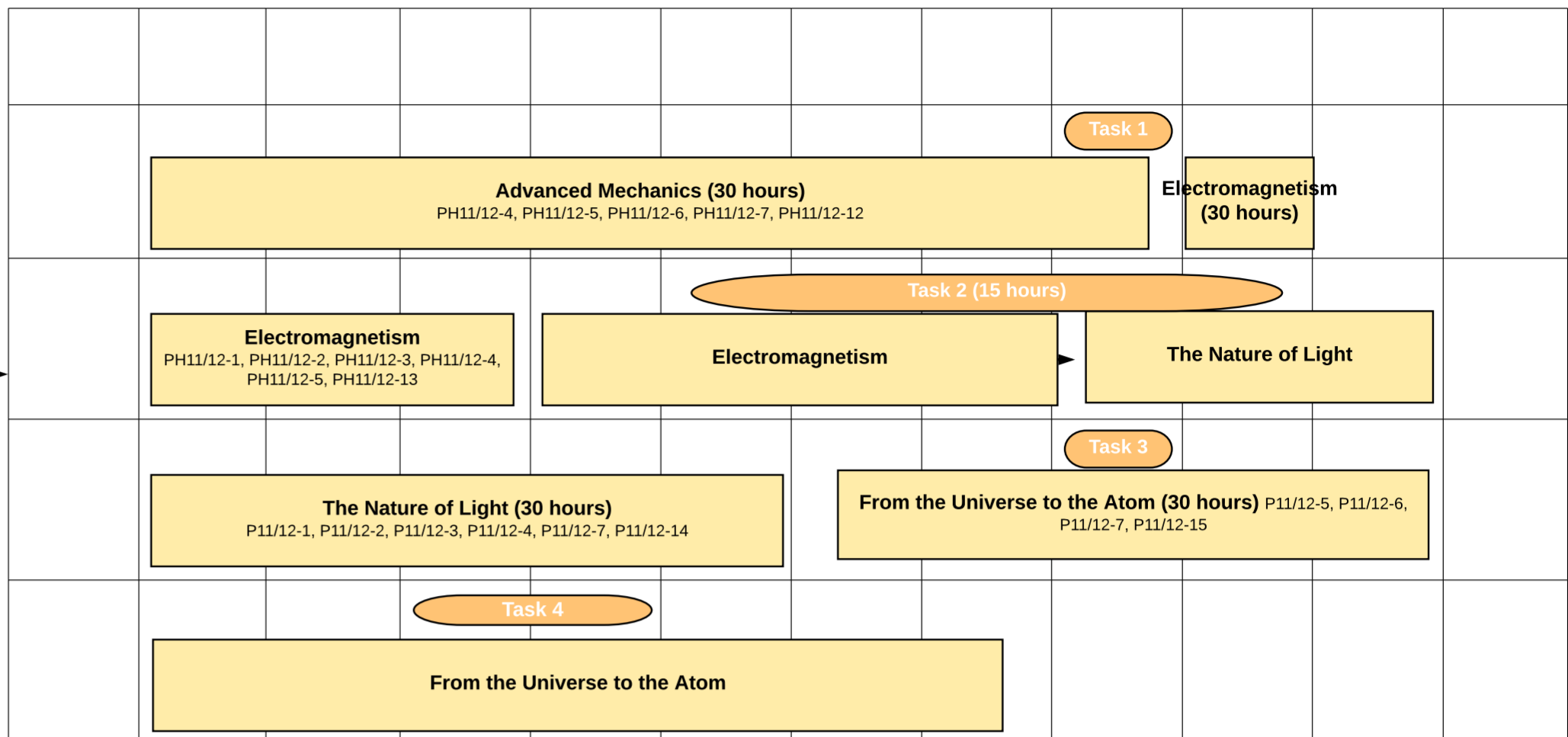
Mater Dei Catholic College
Subject Scope and Sequence

KLA: Biology
(1 week = 4 hours)

Year 12



Assessments	Task 1 Research	Task 2 Depth Study	Task 3 Trial HSC Exams
Skills in Working Scientifically (60%)	20%	30%	10%
Knowledge and Understanding (40%)	10%	10%	20%
Weights	30%	40%	30%
Outcomes Assessed	BIO11/12-4, BIO11/12-6, BIO11/12-7, BIO12-12	BIO11/12-1, BIO11/12-2, BIO11/12-3, BIO11/12-7, BIO12-14	BIO11/12-1-7, BIO12-12-15



Assessments	Task 1 Practical	Task 2 Depth Study	Task 3 Data Processing	Task 4 Trial HSC Exams
Knowledge and Understanding 40%	5%	10%	10%	15%
Skills and Working Scientifically	15%	15%	15%	15%
Weights	20%	25%	25%	30%
Outcomes Assessed	PH11/12-7, PH11/12-3, PH11/12-5, PH11/12-6, PH12-12	PH11/12-1, PH11/12-2, PH11/12-3, PH11/12-4, PH11/12-5, PH11/12-7, PH12-13	PH11/12-4, PH11/12-5, PH11/12-6, 12-14	PH11/12-2, PH11/12-4, PH11/12-5, PH11/12-6, PH12 12-15

2022

Mater Dei Catholic College Subject Scope and Sequence

KLA: Chemistry
(1 week = 4 hours)

Year 12

Term/Week	1	2	3	4	5	6	7	8	9	10	11	
4	Equilibrium and Acid Reactions(30 hours) CH11/12-4, CH11/12-5, CH11/12-6, CH11/12-7, CH12-12.							Acid/Base Reactions				
1	Acid/Base Reactions (30 hours) CH11/12-1, C11/H12-2, CH 11/12-3, CH11/12-5, CH12-13					Task 1		Depth Study (15 Hours) Skills - CH11/12-1,2,3,4,5,6,7.				
2	Depth Study Skills - CH11/12-1,2,3,4,5,6	Organic Chemistry (30 hours) CH11/12-5, CH11/12-6, CH11/12-7, CH12-14							Task 2		Applying Chemical Ideas	
3	Task 3											
	Applying Chemical Ideas (30 hours) CH11/12-1, CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-7, CH12-15.											

Assessments	Task 1 Prac	Task 2 Depth Study	Task 3 Trial HSC Exam
Knowledge and Understanding 40%	10	15%	15%
Skills in Working Scientifically 60%	20%	25%	15%
Weights	30%	40%	30%
Outcomes Assessed	CH12-13, CH11/12-3, CH11/12.5, CH11/12-6	CH12-12, CH12-13, CH12-14, CH12-15, CH11/12-1, CH11/12-4, CH11/12-5, CH11/12-6, CH11/12-7	CH12-12, CH12-13, CH12-14, CH12-15, CH11/12-1, CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-5, CH11/12-6, CH11/12-7