

Course Scope for Mathematics Mathayom 5



Semester	1/2025-2026	Teacher	Mark Street
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12-16 May	Introduction to Algebraic Methods; Algebraic Fractions	Comments/ 12 May - Visakha Bucha
19-23 May	Remainder Theorem; Descartes Rule of Signs	
26-30 May	Dividing Polynomials; Factor Theorem	
2-6 Jun.	Mathematical Proof; Methods of Proof	2-3 Jun Queen Mother's Birthday
9-13 Jun.	Pascal's Triangle; Factorial Notation; Sigma Notation	
16-20 Jun.	The Binomial Expansion; Solving Binomial Problems	
23-27 Jun.	Binomial Estimation;	
30 Jun4 Jul.	Introduction to Trigonometric Ratios; The Cosine Rule	
7-11 Jul.	The Sine Rule; Areas of Triangles; Solving Triangle Problems	10 Jul Asalha Bucha
14-18 Jul.	Graphs of Sine, Cosine, and Tangent	
21-25 Jul.	Transforming Trigonometric Graphs; Mixed Exercise	
28 Jul1 Aug.	Angles in All Four Quadrants; Exact Values of Trigonometric Ratios	28 Jul King's Birthday
4-8 Aug.	Trigonometric Identities; Simple Trigonometric Equations	
11-15 Aug.	Harder Trigonometric Equations; Equations and Identities	11-12 Aug Queen's Birthday
18-22 Aug.	Applications of Trigonometric Equations; Mixed Exercise	
25-29 Aug.	Advanced Problem-Solving Techniques;	
1-5 Sept.	Mixed Practice for Exams	
8-12 Sept.	Review for Final Exam	
15-19 Sept.	Final Exam Week	



Course Scope for Mathematics Mathayom 5



Semester 1/2025-2026 Teacher Mark Street

12-16 May	Basic Algebraic Operations; Simplifying Expressions	Comments/ 12 May - Visakha Bucha
19-23 May	Understanding Factors, Multiples, and Divisibility Rules	
26-30 May	Expanding and Factorizing Simple Expressions	
2-6 Jun.	Basic Proof Concepts; Introduction to Logic Statements	2-3 Jun Queen Mother's Birthday
9-13 Jun.	Pascal's Triangle and Simple Expansions	
16-20 Jun.	Basic Binomial Expansions and Simple Calculations	
23-27 Jun.	Introduction to Estimation and Approximation	
30 Jun4 Jul.	Fundamentals of Right-Angled Trigonometry	
7-11 Jul.	Using Pythagoras' Theorem and Basic Trig Ratios	10 Jul Asalha Bucha
14-18 Jul.	Introduction to Graphing Sine, Cosine, and Tangent	
21-25 Jul.	Transformations of Simple Graphs and Basic Interpretation	
28 Jul1 Aug.	Angles in Right-Angled Triangles; Simple Applications	28 Jul King's Birthday
4-8 Aug.	Solving Basic Trigonometric Equations	
11-15 Aug.	Basic Trigonometric Identities and Simple Manipulations	11-12 Aug Queen's Birthday
18-22 Aug.	Applications of Trigonometry in Simple Real-Life Problems	
25-29 Aug.	More real-life problem solving	
1-5 Sept.	Mixed Practice with Exam Questions	
8-12 Sept.	Review for Final Exam	
15-19 Sept.	Final Exam Week	



Course Scope for Project Science and Technology Mathayom 5



Semester 1/2025-2026 Teacher Steven Fournier

Date	Contents	Comments/ Remarks
12 - 16 May	Biology: Review: Ecology and the Environment. (163-195) Project 1 : Give examples of where animals/plants have had extremely positive or extremely negative interactions with their environment.	
19 - 23 May	Biology: Variation and Selection. (197-210) Look at chromosomes, genes and Dna. Look at mitosis and meiosis and how cells are made. Look at punnet squares and transference of genetic traits. Worksheet 1: Punnet Squares.	
26 – 30 May	Lab—Extracting DNA from a strawberry. Video Biology. Variation and Selection. (Genes and Inheritance) Genes and inheritance, passing of good and bad genes, natural selection evolution and selective breeding. (211-236)	
2 – 6 June	Review Units 4 and 5 and have Quiz 1. Present Project 1 after quiz	
9 – 13 June	Physics: Solids, liquids and gases. Discuss density and pressure (pg 612-622) Worksheet 2	
16 – 20 June	Physics: (623-635) Solids, Liquids and gases. Energies involved in changed states as well as gas laws, $p1v1 = p2v2$, absolute zero, the kelvin scale. Students will be given concept questions based on aspects of density and pressure and asked to answer in presentation like format as Project 2 .	
23 – 27 June	Concept questions presentations. Review for Quiz 2	
30 June - 4 July	Quiz 2 on Pressure. Prepare for Midterms based on Unit 4 and 5 in Biology and Unit 5 in Physics. Students have time to catch up on due work.	
7 - 11 July	Midterms and Catching up on missing work, Councelling as to scores and desired outcomes. + Early Presentation of concept questions for Project 2.	
14 -18 July	Physics Unit 6: Magnetism and Electromagnetism. Pg 639-646. Investigating a magnetic field, creating a magnetic field. Explaining how a circuit breaker uses excessive energy to turn off a switch.	
21 – 25 July	Physics Unit 6: Page 646-655. Electric motors and induction, look at how a generator makes current.	
28 July- 1 August	Quiz 3: on Unit 6. Project 2 finish + the concept questions on Magnetism plus some orienteering fun (learning how to use a compass). Oral Presentation individual.	
4 - 8 August	Chemistry: Review Unit 1: Balancing Equations, calculating moles/g, relative mass. Calculations. 290-315.	
11 – 15 August	Worksheet 3. Stoichiometry. Figuring out how much reactant you need if given an amount of a sample. Quiz: Chemistry Test.	
18 - 22 August	Chemistry: Ionic Bonding, Covalent Bonding 316-342.	
25 - 29 August	Chemistry: Acids and Bases, 386-397. Lab—making a natural indicator with red cabbage. Test 4: Chemistry	
1 - 5 September	Review Biology 4,5 and Chemistry 1. Project 4: Presentation of a chemical reaction in class with safety and explanation. Worksheet 4: Review for Exams.	
8 - 12 September	Review: Biology Units 4 and 5, Physics 5, 6 Chemistry 1 and acids and bases. Mock exams and time given to get students caught up.	
15 -19 September	Final Exam Week	



Bangkok Christian College English Immersion Program Course Scope for Project Science and Technology Mathayom 5 Semester 1/2025-2026 Teacher Steven Fournier



Data	Data	
Date	Contents	Remarks
12 - 16 May	Physic review of Units 1-4. Introduction into Unit 5: Solid, Liquids and gases. States of Matter (Chemistry_ 259-266) Project 1: Create a machine that uses pressure to perform a task. (3 weeks) water pressure, air pressure, demonstrations.	
19 - 23 May	Physics: Unit 5: Solids, liquids and gases. Pg 621-628. Density, pressure, and pressures at depths.	
26 – 30 May	Worksheet 1: Pressure. Physics: Unit 5: Finish 628 and do unit questions in groups.	
2 – 6 June	Project 1 : Presentation of pressure projects. Marked on oral presentation as well as demonstration and physical creations.	
9 – 13 June	Unit 5; Solids, Liquids, and Gases. Pg 629-637, Gas Laws, p1v1=p2v2, absolute zero. Kelvin scale Quiz 1: Pressure.	
16 – 20 June	Unit 5: Concept Questions + Presentations (groups of 2 max) based on pressure questions. Worksheet 2: Interview of individual students on Concept questions for an oral score	
23 – 27 June	Finish Unit 5 and do final Unit questions in class. Also some sample questions from past papers to test comprehension.	
30 June - 4 July	Quiz 2: Pressure + Fluid dynamics (from concept questions). Review Unit 5	
7 - 11 July	Review + catch up on missing assignments. Council on grades + Midterms.	
14 -18 July	Introductions of Fluids (via Teams) and look at situations of Pressure and states of change.	
21 – 25 July	External material on teams of Fluid (chapter 15) to States of change and (chapter 16) and Laws of Thermodynamics (Unit 17)	
28 July- 1 August	States of Change and Thermodynamics	
4 - 8 August	Project 2: Demonstrate examples of states of change in industry and explain their usefulness. (Groups up to 4 max)	
11 – 15 August	Laws of Thermodynamics, introduction to concepts and calculations. Worksheet 2	
18 - 22 August	Presentation 1: Concept Questions on Fluids, States of Change, and Laws of Thermodynamics. Students will be presented with a question and explain using presentation material and demonstrations if possible.	
25 - 29 August	Project 2 Demonstrations, live class presentations. Exhibit work done by pressure.	
1 - 5 September	Quiz 4: on Chapters of Fluids, States of Change, and Laws of Thermodynamics.	
8 - 12 September	Review of Unit 5, Fluid dynamics, States of Change, Thermodynamics (from Walker) + Students finishing outstanding work and council on grades. Unit 6: Chapters on Magnetism and Electromagnetism	
15 - 19 September	Final Exam Week	



Course Scope for Physics Mathayom 5

Semester 1/2025-2026 Teacher Nicholas Barrett



Date	Contents	Comments/ Remarks
12 - 16 May	Experiment: Stress and Strain of a Spring	
19 - 23 May	Experiment: The period of a pendulum	
26 – 30 May	Experiment: The period of a mass-spring system	
2 – 6 June	Simple Harmonic Motion	
9 – 13 June	The motion graphs of bodies exhibiting $F = -kx$	
16 – 20 June	Free and forced oscillations and their real-life applications	
23 – 27 June	Resonance and damping	
30 June - 4 July	Hooke's Law	
7 - 11 July	Stress, Strain, Elastic potential and how Forces affect material shape	
14 -18 July	Turning effects of forces	
21 – 25 July	The principle of moments	
28 July- 1 August	The three conditions of equilibrium for static objects	
4 - 8 August	Test: Forces and static equilibrium	
11 – 15 August	Classical Wave Theory	
18 - 22 August	Phase difference and path difference of waves	
25 - 29 August	Wave interference	
1 - 5 September	Young's double-slit experiment	
8 - 12 September	Experiment: Standing waves and harmonics	
15 -19 September	Final Exam	



Course Scope for Chemistry Mathayom 5



Semester 1/2025-2026 Teacher Sep Alamouti

		Comments/	
Date	Contents	Remarks	
12 - 16 May	Intro: Classroom Rules & Semester Plan Identify and explain key classroom rules and expectations for behavior, participation, and academic integrity. Demonstrate respect for peers, teachers, and the learning environment through appropriate classroom conduct. Follow established procedures for asking questions, submitting assignments, and participating in discussions. Understand the consequences of not adhering to classroom rules and policies.	Content and Assessment: Classroom Rules Handouts Chemistry Lab SOP Handout	
		Content and Assessment:	
19 - 23 May	 Intro: Lab Safety & Procedures Identify and explain key laboratory safety rules and procedures. Demonstrate proper handling of chemicals, glassware, and lab equipment to prevent accidents. Interpret and apply safety symbols and hazard labels on chemical containers. Locate and use emergency safety equipment, including eyewash stations, fire extinguishers, and safety showers. Follow correct protocols for waste disposal and spill management in the laboratory. Assess potential risks in lab activities and suggest appropriate safety precautions. 	Lab Safety Handout Formative: Lab Safety	
26 – 30 May	 Topic1: Maths in Chemistry Explain Measurement Uncertainties and Errors Differentiate between accuracy and precision in scientific measurements. Identify and classify types of errors, including systematic and random errors. Calculate percentage error to evaluate the reliability of experimental results. Analyze sources of uncertainty in lab measurements and suggest ways to minimize them. Record and Analyze Experimental Data Accurately Record observations and measurements in a structured lab notebook using appropriate units and significant figures. Organize and interpret experimental data using tables, graphs, and charts. 	Content and Assessment: Measurement Handout Formative: Measurements and data analysis in Chemistry lab	

	 Identify patterns and trends in experimental data to make scientific conclusions. Evaluate the reliability and limitations of collected data and suggest improvements 	
	Topic 2: Bonding	Content and Assessment:
	Ionic Bonding Review:	
	2.4 - Formation of Ions	IGCSE Chemistry Student Textbook: Pages 75-84
	2.5 - Ionic Bonding	Pages 190-197
	2.6 - Ionic Compounds	Required Problems: 1-6 (Pages 83-84)
	Chemical Tests	Required Problems: 1-8 (Pages 196-197)
	know the colours formed in flame tests for these cations:	
	• Li ⁺ is red	Revision Textbook:
	• Na ⁺ is yellow	
	• K ⁺ is lilac	Pages 91-94
2 – 6 June	• Ca ²⁺ is orange-red	Lab Book:
	• Cu ²⁺ is blue-green.	Pages 39-45
	describe tests for these cations:	
	\bullet $NH_{4^{+}}$ using sodium hydroxide solution and identifying the gas evolved	
	\bullet Cu ²⁺ , Fe ²⁺ and Fe ³⁺ using sodium hydroxide solution.	Formative Assessments:
	describe tests for these anions:	Ionic Compounds
	\bullet Cl ⁻ , Br ⁻ and I ⁻ using acidified silver nitrate solution	Chemical Tests
	• SO_4^{2-} using acidified barium chloride solution	
	\bullet CO ₃ ^{2–} using hydrochloric acid and identifying the gas evolved.	Exam Style Questions
		Content and Assessment:
	Topic 2: Bonding	
9 – 13 June	2.7 - Covalent Bonding	IGCSE Chemistry Student Textbook:
	know that a covalent bond is formed between atoms by the sharing of a pair of electrons understand covalent bonds in terms of electrostatic attractions	Pages 85-97 Pages 190-197
	understand how to use dot-and-cross diagrams to represent covalent	
	Donas In:	Required Problems: 1-8 (pages 96-97)
	diatornic molecules, including hydrogen, oxygen, nitrogen, halogens and hydrogen	Required Problems: 1-8 (Pages 196-197)
	halides	

	• inorganic molecules including water, ammonia and carbon dioxide	Revision Textbook:
	• organic molecules containing up to two carbon atoms, including	
	methane, ethane, ethene and those containing halogen atoms.	Pages 34-36
	describe tests for these gases:	Lab Book: N/A
	• hydrogen • oxygen • carbon dioxide • ammonia• chlorine.	
		Formative Assessments:
		Covalent Bonding
		Exam Style Questions
		Content and Assessment:
		IGCSE Chemistry Student Textbook:
		-
	Topic 2: Bonding	Pages 85-97
	2.8 - Types of Covalent Structures	C C
		Required Problems: 1-8 (pages 96-97)
	understand how to use dot-and-cross diagrams to represent covalent	
	bonds in:	Revision Textbook:
16 – 20 June	diatomic molecules, including hydrogen, oxygen, nitrogen, halogens and hydrogen	
	halides	Pages 37-38
	• inorganic molecules including water, ammonia and carbon dioxide	Lab Book: N/A
	• organic molecules containing up to two carbon atoms, including	
	methane, ethane, ethene and those containing halogen atoms.	Formative Assessments:
		Types of Covalent Structures
	explain why substances with simple molecular structures are gases or liquids, or solids with low melting and boiling points	51
	the term intermolecular forces of attraction can be used to represent	Exam Style Questions
	all forces between molecules	
	explain why substances with giant covalent structures are solids with high melting and boiling point	
	Topic 2: Bonding	Content and Assessment:
	2.9 - Diamond & Graphite	IGCSE Chemistry Student Textbook:
	2.10 - Graphene & Fullerenes	
		Pages 85-97
	explain how the structures of diamond, graphite and C60 fullerene influence their physical	
23 27 June	properties, including electrical conductivity and hardness	Required Problems: 1-8 (pages 96-97)
25 – 27 June		Revision Textbook:
	know that covalent compounds do not usually conduct electricity	
		Pages 37-38
		Lab Book: N/A
		Formative Assessments:
		Diamond & Graphite
		Graphene & Fullerenes

		Exam Style Questions
		Content and Assessment:
	Topic 2: Bonding	IGOSE Chemistry Student Taythook
		Pages 98-100
	2.11 - Metallic Bonding	Required Problems: 1-3 (pages 100)
		Revision Textbook:
30 June - 4	know how to represent a metallic lattice by a 2-D diagram	Pages 39
July	understand metallic bonding in terms of electrostatic attractions	Lab Book: N/A
	explain typical physical properties of metals, including electrical conductivity and malleability	
		Formative Assessments:
		Metallic Bonding
		Exam Style Questions
	Topic 2: Particles & Mixtures	
	Topic 1&2 Test	
	PBL Project	
		Content and Assessment:
7 - 11 July		Topic 3 Test Review Sheet
		Test Review Activities:
		• Review keywords relating to the previous topics.
		Multiple-choice questions to review prior knowledge.
		 Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise.
		 Modelling how to answer questions. Students mark exemplar work using mark schemes
		Content and Assessment.
	Topic 3 - Equations, Calculations & Elec-	Content and Assessment.
	ti olysis	IGCSE Chemistry Student Textbook
	Equations and Stoichiometry Review:	
14 -18 July	3.1 - Balancing Chemical Equations	Pages 38-63
	3.2 - Relative Formula Mass	Required Problems: 1-20 (pages 60-63)
	3.3 - Moles & Mass	
	3.4 - Conservation of Mass	Revision Textbook:
	3.5 - Calculating Mass in Reactions	Pages 42-48
	3.8 - Molecular & Empirical Formulas	Lab Book: N/A

	3.10 - Percentage Yield	
		Formative Assessments:
		Balancing Chemical Equations
		Relative Formula Mass
		Moles & Mass
		Conservation of Mass
		Calculating Mass in Reactions
		Molecular & Empirical Formulas
		Percentage Yield
		Exam Style Questions
		Content and Assessment:
	Topic 3 - Equations, Calculations & Elec-	
	trolysis 3.9 - Water of Crystallisation	IGCSE Chemistry Student Textbook:
	describe a test for the presence of water using anhydrous copper(II)	Pages 53
	sulfate	Required Problems: N/A
	describe a physical test to show whether a sample of water is pure	
21 – 25 July		Revision Textbook:
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Pages 50-51
		Lab Book: N/A
		Formative Assessments:
		Water of Crystallisation
		Exam Style Questions
		Content and Assessment:
		IGCSE Chemistry Student Textbook:
		Pages 64-74
28 July- 1 August	Topic 3 - Equations, Calculations & Elec- trolysis	Required Problems: 1-13 (pages 72-74)
U	3.6 - Gas Calculations	Revision Textbook:
	understand how to come out coloulations involving assurations and	Pages 53
	the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room tempera- ture and pressure (rtp)	
	the and broome (rb)	Lab Book: N/A
		Formative Assessments:

		Gas Calculations
		Exam Style Questions
		Content and Assessment:
		IGCSE Chemistry Student Textbook:
		Pages 64-74
	Topic 3 - Equations, Calculations & Elec- trolysis	Required Problems: 1-13 (pages 72-74)
1 8 August		Revision Textbook:
4 - 8 August	3.7 - Concentration Calculations (grams/dm^3)	Pages 52
	know what is meant by the terms: • solvent	Lab Book: N/A
	• solute	Formative Assessments:
	• solution	
	• saturated solution.	Concentration Calculations (grams/dm^3)
	understand how to carry out calculations involving amount of sub- stance, volume and concentration (in mol/dm ³) of solution	Exam Style Questions
		Content and Assessment:
	Topic 3 - Equations, Calculations & Elec- trolysis	
	ti 019515	IGCSE Chemistry Student Textbook:
	3.11 - Electrolysis 1 – Introduction	Pages 101-113
	understand why covalent compounds do not conduct electricity understand why ionic compounds conduct electricity only when molten or in aqueous solution	Required Problems: 1-6 (pages 112-113)
	know that anion and cation are terms used to refer to negative and positive ions respectively	Revision Textbook:
11 – 15 August	positive rous respectively	Pages 56-58
		Lab Book: N/A
		Formative Assessments:
		Electrolysis 1 – Introduction
		Exam Style Questions

		Content and Assessment:
	Taria 2 Errections Calculations 8 Elec	IGCSE Chemistry Student Textbook:
	trolysis	Pages 101-113
	3.12 - Electrolysis 2 - Aluminium Oxide	
		Required Problems: 1-6 (pages 112-113)
18 - 22 August	understand why ionic compounds conduct electricity only when molten or in aqueous solution	
		Revision Textbook:
	know that anion and cation are terms used to refer to negative and positive ions respectively	Pages 56-58
	describe experiments to investigate electrolysis, using inert electrodes, of molten compounds (including lead(II) bromide) and acutous solutions (including sodium ablarida, diluta sulfuria soid and	Lab Book: N/A
	copper(II) sulfate) and to predict the products	Formative Assessments:
	write ionic half-equations representing the reactions at the electrodes during electrolysis and understand why these reactions are classified as oxidation or reduction	Electrolysis 2 - Aluminium Oxide
		Exam Style Questions
		Content and Assessment:
		IGCSE Chemistry Student Textbook:
		Pages 101-113
	Topic 3 - Equations, Calculations & Elec- trolysis 3.13 - Electrolysis 3 - Aqueous Solutions	Pages 101-113 Required Problems: 1-6 (pages 112-113)
25 - 29 August	Topic 3 - Equations, Calculations & Elec- trolysis 3.13 - Electrolysis 3 - Aqueous Solutions	Pages 101-113 Required Problems: 1-6 (pages 112-113)
25 - 29 August	Topic 3 - Equations, Calculations & Electrolysis 3.13 - Electrolysis 3 - Aqueous Solutions understand why ionic compounds conduct electricity only when molten or in aqueous solution	Pages 101-113 Required Problems: 1-6 (pages 112-113) Revision Textbook: Pages 56-58
25 - 29 August	Topic 3 - Equations, Calculations & Electrolysis 3.13 - Electrolysis 3 - Aqueous Solutions understand why ionic compounds conduct electricity only when molten or in aqueous solution know that anion and cation are terms used to refer to negative and positive ions respectively	Pages 101-113 Required Problems: 1-6 (pages 112-113) Revision Textbook: Pages 56-58
25 - 29 August	Topic 3 - Equations, Calculations & Electrolysis 3.13 - Electrolysis 3 - Aqueous Solutions understand why ionic compounds conduct electricity only when molten or in aqueous solution know that anion and cation are terms used to refer to negative and positive ions respectively	Pages 101-113 Required Problems: 1-6 (pages 112-113) Revision Textbook: Pages 56-58 Lab Book: N/A
25 - 29 August	Topic 3 - Equations, Calculations & Electrolysis 3.13 - Electrolysis 3 - Aqueous Solutions understand why ionic compounds conduct electricity only when molten or in aqueous solution know that anion and cation are terms used to refer to negative and positive ions respectively describe experiments to investigate electrolysis, using inert electrodes, of molten compounds (including lead(II) bromide) and aqueous solutions (including sodium chloride, dilute sulfuric acid and copper(II) sulfate) and to predict the products	Pages 101-113 Required Problems: 1-6 (pages 112-113) Revision Textbook: Pages 56-58 Lab Book: N/A Formative Assessments:
25 - 29 August	Topic 3 - Equations, Calculations & Electrolysis 3.13 - Electrolysis 3 - Aqueous Solutions understand why ionic compounds conduct electricity only when molten or in aqueous solution know that anion and cation are terms used to refer to negative and positive ions respectively describe experiments to investigate electrolysis, using inert electrodes, of molten compounds (including lead(II) bromide) and aqueous solutions (including sodium chloride, dilute sulfuric acid and copper(II) sulfate) and to predict the products	Pages 101-113 Required Problems: 1-6 (pages 112-113) Revision Textbook: Pages 56-58 Lab Book: N/A Formative Assessments: Electrolysis 3 – Aqueous Solutions

		Content and Assessment:
		IGCSE Chemistry Student Textbook:
	Topic 3 - Equations, Calculations & Elec-	
	trolysis	Pages 101-113
	Practical: The electrolysis of aqueous solutions using inert electrodes	Required Problems: 1-6 (pages 112-113)
1 5	describe experiments to investigate electrolysis, using inert	Revision Textbook:
1 - 5 Sentember	electrodes, of molten compounds (including lead(II) bromide) and aqueous solutions (including sodium chloride, dilute sulfuric acid and	Pages 56-58
September	copper(II) sulfate) and to predict the products	
		Lab Rook - pages 18-22
	write ionic half-equations representing the reactions at the electrodes during electrolysis and understand why these reactions are classified	Lab Book. pages 10 22
	as oxidation or reduction	Formative Assessments.
		i ormative ressessments.
		Practical. The electrolysis of aqueous solutions using
		inert electrodes
	Topic 3 Test	
	Topic 3 Test Topic 3 Unit Test	Content and Assessment:
	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment:
	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet
	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet
8 - 12	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet
8 - 12 September	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet Test Review Activities:
8 - 12 September	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet Test Review Activities: • Review keywords relating to the previous topics.
8 - 12 September	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet Test Review Activities: Review keywords relating to the previous topics. Multiple-choice questions to review prior knowledge.
8 - 12 September	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet Test Review Activities: Review keywords relating to the previous topics. Multiple-choice questions to review prior knowledge. Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise.
8 - 12 September	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet Test Review Activities: Review keywords relating to the previous topics. Multiple-choice questions to review prior knowledge. Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise. Modelling how to answer questions.
8 - 12 September	Topic 3 Test Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet Test Review Activities: • Review keywords relating to the previous topics. • Multiple-choice questions to review prior knowledge. • Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise. • Modelling how to answer questions. Students mark exemplar work using mark schemes.
8 - 12 September 15 -19	Topic 3 Test Topic 3 Unit Test Semester Review Final Exam Week	Content and Assessment: Topic 3 Test Review Sheet Test Review Activities: • Review keywords relating to the previous topics. • Multiple-choice questions to review prior knowledge. • Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise. • Modelling how to answer questions. Students mark exemplar work using mark schemes.
8 - 12 September 15 -19 September	Topic 3 Test Topic 3 Unit Test Semester Review Final Exam Week	Content and Assessment: Topic 3 Test Review Sheet Test Review Activities: • Review keywords relating to the previous topics. • Multiple-choice questions to review prior knowledge. • Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise. • Modelling how to answer questions. Students mark exemplar work using mark schemes.



Bangkok Christian College English Immersion Program Course Scope for Biology Mathayom 5 Semester 1/2025-2026 Teacher Rick Reinders



Date	Contents	Comments/
		Remarks
12 - 16 May	Introduction lesson (Teams, Onenote, expectations, skills, rules	
	etc)	
19 - 23 May	Unit 1: Reproduction. 3.1 Reproduction Sexual and Asexual	
	PRESENTATION	
26 – 30 May	Unit 1: Reproduction. 3.2 Reproduction Flowering Plants	
20 00 may	PRESENTATION	
2 – 6 June	Unit 1: Reproduction WORKSHEET	
9 – 13 June	Unit 1: Reproduction Review and Quiz	
	Unit 2: Genetics. 3.4 Inheritance DNA and Genes	
16 – 20 June	PRESENTATION	
23 – 27 June	Unit 2: Genetics. 3.5 Inheritance Genetics PRESENTATION	
30 June - 4 July	Unit 2: Genetics WORKSHEET	
7 - 11 July	Unit 2: Genetics Review and Quiz	
14 -18 July	Unit 3: Cell Division. 3.6 Inheritance Cell Division	
14 -10 July	PRESENTATION	
21 – 25 July	Unit 3: Cell Division. WORKSHEET	
28 July- 1		
August	Unit 3: Cell Division Review and Quiz	
4 - 8 August	Unit 4: Natural Selection and Evolution. 3.7 Inheritance	
	Variation and Mutation PRESENTATION	
11 15 August	Unit 4: Natural Selection and Evolution. 3.8 Inheritance	
11 – 15 August	Evolution PRESENTATION	
18 - 22 August	Unit 4: Natural Selection and Evolution WORKSHEET	
25 - 29 August	Unit 4: Natural Selection and Evolution. Review and Quiz	
1 - 5 September	Reproduction and Genetics PROJECT	
8 - 12		
September	Reproduction and Genetics PROJECT	
15 -19		
September	Final Exam Week	



Bangkok Christian College English Immersion Program Course Scope for Computer Mathayom 5 Semester 1/2025-2026 Teacher James Cookson



		Comments/
Date	Contents	Remarks
		Kennar K5
12 - 16 May	Python Programming Introduction	
19 - 23 May	Python - Variables	
26 – 30 May	Python – Basic Math	
2 – 6 June	Python – Data types	
9 – 13 June	Python – Strings/Inputs	
16 – 20 June	Python – If/Else	
23 – 27 June	Python – Arrays	
30 June - 4 July	Python – Dictionaries	
7 - 11 July	Python – Midterm Exam	
14 -18 July	Python - Functions	
21 – 25 July	Python – Functions 2	
28 July- 1 August	Python –For Loops	
4 - 8 August	Python – While Loops	
11 – 15 August	Python – Shop and Basket App	
18 - 22 August	Python – Shop and Basket App 2	
25 - 29 August	Python – Introduction to Group Final Project	
1 - 5 September	Python - Group Final Project	
8 - 12 September	Python - Group Final Project	
15 -19 September	Python - Group Final Project	



Course Scope for Health and Physical Education Mathayom 5

Semester 1/2025-2026 Teacher Benjamin Peter Fishman



Date	Contents	Comments/
Duit	Contents	Remarks
12 - 16 May	Teacher Introduction	
19 - 23 May	Course Theme Introduction	
26 – 30 May	Biodata collection week	
2 – 6 June	Bodybuilding overview	
9 – 13 June	Bodybuilding upper body	
16 – 20 June	Bodybuilding lower body	
23 – 27 June	Cardiovascular workout	
30 June - 4 July	Yoga workout	
7 - 11 July	Stretching overview	
14 -18 July	Nutrition Lesson	
21 – 25 July	Nutrition quiz	
28 July- 1 August	Combat sports overview	
4 - 8 August	Boxing footwork drills	
11 – 15 August	Boxing drills	
18 - 22 August	Local Sports project intro	
25 - 29 August	Local Sports project	
1 - 5 September	Local Sports project presentation	
8 - 12 September	Course theme debrief	
15 -19 September	Final Exam Week	



Course Scope for English Mathayom 5

Semester 1/2025-2026 Teacher Drew Schwarzer

Data	Contonts	Comments/
Date	Contents	Remarks
	Introduction to the Course Module 5: Travel and Tourism Springboard	12 May
12 - 16 May	1: Transport, Travel & Places to visit. Springboard 2: Places for	<u>Visakha</u>
	Tourists	Bucha
19 - 23 May	Unit 1: Destinations	
26 - 30 May	Unit 2: Travel	
		Queen's
2 - 6 June		Birthday 2-
	Unit 3: Accommodation	3 June
9 – 13 June	Unit 4: Responsible Tourism	
16 – 20 June	Unit 5: Advantages & Disadvantages of a Gap Year	
22 – 27 June	Unit 6: Planning a City Tour	
30 June - 4		
July	Project: Travel Pamphlet and Info Graphic	
		10 July
7 - 11 July		Asalha
	Midterm	Bucha
14 - 18 July	Module 6: The Environment Springboard 1: Environmental Issues Springboard 2: The Natural Environment	
21 – 25 July	Unit 1: Sustainable Development Goals	
		28 July
28 July - 1		King's
August	Unit 2: Environmental Change	Birthday
4 - 8 August	Unit 3: Green Projects	
		12 August
11 – 15 August		Mother's
5	Unit 4: Greenwashing	Day
18 - 22 August	Unit 5: The Ocean Cleanup	· · · ·
25 - 29 August	Unit 6: The Circular Economy	
1-5		
September	Project: Green Project Pamphlet and Info Graphic	
8 - 12	a a transferra	
September	Review for Finals	
	Final Exam Week	



Course Scope for AI Foundations Mathayom 5



Semester 1/2025–2026 Teacher Miles Long

Date	Contents	Comments/ Remarks
12 - 16 May	Teacher/student introductions. Go over class rules, grading system, and course outline. Set learning goals. Initial assessment of students' understanding of AI. Icebreaker activities with AI chatbots.	12 May Visakha Bucha
19 - 23 May	Unit 1-1: Introduction to AI – Understanding AI basics, types, and real- world applications. Exploring AI tools and their capabilities. Assessment: Reflection on AI's impact in daily life.	
26 - 30 May	Unit 1-2: AI as a Learning Tool – How AI can assist in studying and research. Practicing effective prompt engineering. Assessment: Students generate study materials using AI and verify accuracy.	
2 - 6 June	Unit 1-3: AI and Creativity – Exploring AI-generated writing, art, and music. Ethical concerns in AI creativity. Assessment: Students refine AI-generated content to improve originality.	Queen's Birthday 2- 3 June
9 - 13 June	Unit 1-4: AI and Critical Thinking – Recognizing AI bias and misinformation. Developing fact-checking strategies. Assessment: Students analyze AI responses and correct inaccuracies.	
16 - 20 June	Unit 1-5: AI Ethics – Discussing responsible AI use, privacy, and bias. Case study analysis.	
22 - 27 June	Unit 1-6: AI in Problem-Solving – Identifying real-world problems and AI's role in addressing them. Assessment: Students propose AI-based solutions to global issues.	
30 June - 4 July	Unit 1-7: AI in Different Industries – Exploring AI applications in healthcare, finance, and education.	
7 - 11 July	Unit 1-8: AI for Personal Productivity – Using AI for organization, writing assistance, and project management. Assessment: Students optimize a task using AI.	10 July Asalha Bucha
14 - 18 July	Unit 1-9: Final Project Planning – Students begin their AI-based project, focusing on solving a real-world problem.	
21 - 25 July	Unit 2-1: AI and Data – Understanding how AI processes data. Ethical considerations of AI data collection.	
28 July - 1 August	Unit 2-2: AI and Decision-Making – How AI makes predictions and its impact on business and society.	28 July King's Birthday

4 - 8 August	Unit 2-3: AI and Bias – Identifying and mitigating AI bias. Case studies on biased AI decisions.	
11 – 15 August	Unit 2-4: AI and Human Collaboration – Understanding how AI enhances human skills. Group discussion.	12 August Mother's Day
18 - 22 August	Unit 2-5: AI and Future Trends – Exploring advancements in AI and their potential impact.	
25 - 29 August	Unit 2-6: AI and Creativity Revisited – Experimenting with AI- generated projects and refining results.	
1 - 5 September	Unit 2-7: Final Project Presentations – Students present their AI projects, showcasing how they used AI responsibly.	
8 - 12 September	Final Exam Week	



Course Scope for South-East Asia Mathayom 5

Semester 1/2025-2026 Teacher Andrew Hailstone



Date	Contents	Comments/
		Remarks
		12 May
12 - 16 May	State and englassic of the countries of South Fact Asia	Visakha
12 10 May	Stats and analysis of the countries of South-East Asia	Bucha
19 - 23 May	Analysis of the structure of the Governments of A.S.E.A.N. Part 1	
	Analysis of the structure of the Governments of A.S.E.A.N. Part 2 and Thai	
26 - 30 May	Governmental structure analysis	
	Review and Structure of Governments Test	Oueen's Birthday
2 - 6 June	Review and Structure of Governments Test	2-3 June
	History of A.S.E.A.N.; previous attempts at organizations, and conflict between the 5	
9 – 13 June		
	nations.	
16 – 20 June	Development of A.S.E.A.N.; origins, motivations, and growth	
22 – 27 June	Review and History of A.S.E.A.N. Test	
30 June - 4 July	East Timor membership	
50 sunc - 4 sury		10 1 1
7 - 11 July	Map analysis of the rise and decline of the Brunei empire	10 July
7 - 11 July		Asalha Bucha
14 - 18 July	Analysis of Brunei's history and its formation as a country and its economic basis	
21 – 25 July	Political control of the people by the Sultan	
28 July - 1	Review and Brunei Test	28 July King's
August		Birthday
	East Timor Analysis of Colonial History and Indonesian Control	-
4 - 8 August		
	East Timor Analysis of the beginning of the end, independence and hopes for the	
11 – 15 August	futuro	12 August
	lutule	Mother's Day
18 - 22 August	Review and East Timor Test	
25 - 29 August	Burma; The Anglo Burmese Wars and World War 2 analysis	
1 - 5 September	After World War 2 analysis and a Modern Burma analysis	
8 - 12	Attempts at Democracy and models of development	
September		



Bangkok Christian College English Immersion Program Course Scope for Chemistry Mathayom 5 Semester 1/2025-2026 Teacher Sep Alamouti



Date	Contents	Comments/
		Remarks
	Intro: Classroom Rules & Semester Plan	Content and Assessment:
12 - 16 May	 Identify and explain key classroom rules and expectations for behavior, participation, and academic integrity. Demonstrate respect for peers, teachers, and the learning environment through appropriate classroom conduct. Follow established procedures for asking questions, submitting assignments, and participating in discussions. Understand the consequences of not adhering to classroom rules and policies. 	Classroom Rules Handouts Chemistry Lab SOP Handout
19 - 23 May	Intro: Lab Safety & Procedures Identify and explain key laboratory safety rules and procedures. Demonstrate proper handling of chemicals, glassware, and lab equipment to prevent accidents. Interpret and apply safety symbols and hazard labels on chemical containers. Locate and use emergency safety equipment, including eyewash stations, fire extinguishers, and safety showers. Follow correct protocols for waste disposal and spill management in the laboratory. Assess potential risks in lab activities and suggest appropriate safety precautions.	Content and Assessment: Lab Safety Handout Formative: Lab Safety
	Topic1: Maths in Chemistry	Content and Assessment:
	Explain Measurement Uncertainties and Errors	Measurement Handout
26 – 30 May	 Differentiate between accuracy and precision in scientific measurements. Identify and classify types of errors, including systematic and random errors. Calculate percentage error to evaluate the reliability of experimental results. Analyze sources of uncertainty in lab measurements and suggest ways to minimize them. 	Formative: Measurements and data analysis in Chemistry lab
	 Record and Analyze Experimental Data Accurately Record observations and measurements in a structured lab notebook using appropriate units and significant figures. Organize and interpret experimental data using tables, graphs, and charts. Identify patterns and trends in experimental data to make scientific conclusions. Evaluate the reliability and limitations of collected data and suggest improvements 	
	Topic 2: Bonding	Content and Assessment:
2 – 6 June	Ionic Bonding Review: 2.4 - Formation of Ions 2.5 - Ionic Bonding 2.6 - Ionic Compounds Chemical Tests know the colours formed in flame tests for these cations: • Li ⁺ is red • Na ⁺ is yellow • K ⁺ is lilac • Ca ²⁺ is orange-red • Cu ²⁺ is observed. • KH ₄ ⁺ using sodium hydroxide solution and identifying the gas evolved	IGCSE Chemistry Student Textbook: Pages 75-84 Pages 190-197 Required Problems: 1-6 (Pages 83-84) Required Problems: 1-8 (Pages 196-197) Revision Textbook: Pages 91-94 Lab Book: Pages 39-45
	 Cu²⁺, Fe²⁺ and Fe³⁺ using sodium hydroxide solution. describe tests for these anions: Cl⁻, Br⁻ and I⁻ using acidified silver nitrate solution SO₄²⁻ using acidified barium chloride solution CO₃²⁻ using hydrochloric acid and identifying the gas evolved. 	Ionic Compounds Chemical Tests Exam Style Questions

		Content and Assessment:
	Topic 2: Bonding 2.7 - Covalent Bonding	IGCSE Chemistry Student Textbook:
	know that a covalent bond is formed between atoms by the sharing of a pair of electrons	Pages 85-97 Pages 190-197
9 – 13 June	understand covalent bonds in terms of electrostatic attractions understand how to use dot-and-cross diagrams to represent covalent bonds in:	Required Problems: 1-8 (pages 96-97) Required Problems: 1-8 (Pages 196-197)
9 – 15 June	 diatomic molecules, including hydrogen, oxygen, nitrogen, halogens and hydrogen 	Revision Textbook:
	halides • inorganic molecules including water, ammonia and carbon dioxide • organic molecules containing up to two carbon stoms including	Pages 34-36 Lab Book: N/A
	describe tests for these gases:	Formative Assessments: Covalent Bonding
	• nydrogen • oxygen • caroon dioxide • annnonia• cmorine.	Exam Style Questions
	Topic 2: Bonding	Content and Assessment:
	2.8 - Types of Covalent Structures	IGCSE Chemistry Student Textbook:
	understand how to use dot-and-cross diagrams to represent covalent bonds in:	Pages 85-97
	diatomic molecules, including hydrogen, oxygen, nitrogen, halogens and hydrogen halides	Required Problems: 1-8 (pages 90-97) Revision Textbook:
16 – 20 June	 inorganic molecules including water, ammonia and carbon dioxide organic molecules containing up to two carbon atoms, including 	Pages 37-38
	methane, ethane, ethene and those containing halogen atoms.	Lab Book: N/A
	liquids, or solids with low melting and boiling points the term intermolecular forces of attraction can be used to represent	Types of Covalent Structures
	all forces between molecules explain why substances with giant covalent structures are solids with high melting and boiling point	Exam Style Questions
	Topic 2: Bonding	Content and Assessment:
	2.9 - Diamond & Graphite	IGCSE Chemistry Student Textbook:
	2.10 - Graphene & Fullerenes	Pages 85-97
23 – 27 June	explain how the structures of diamond, graphite and C60 fullerene influence their physical properties, including electrical conductivity and hardness	Required Problems: 1-8 (pages 96-97) Revision Textbook:
	know that covalent compounds do not usually conduct electricity	Pages 37-38 Lab Book: N/A
		Formative Assessments: Diamond & Graphite
		Graphene & Fullerenes
		Exam Style Questions
	Topic 2: Bonding	
	2.11 - Metallic Bonding	Pages 98-100
30 June - 4	know how to represent a metallic lattice by a 2-D diagram	Required Problems: 1-3 (pages 100) Revision Textbook:
July	understand metallic bonding in terms of electrostatic attractions explain typical physical properties of metals, including electrical	Pages 39 Lab Book: N/A
	conductivity and maileability	Formative Assessments: Metallic Bonding
		Exam Style Questions
	Topic 2: Particles & Mixtures	Content and Assessment:
	PBL Project	Topic 3 Test Review Sheet Test Review Activities:
7 - 11 July		Review keywords relating to the previous topics.Multiple-choice questions to review prior
		knowledge.Re-teach previously identified challenging topics,
		anticipating where errors/misconceptions arise.Modelling how to answer questions.
		Students mark exemplar work using mark schemes.

	Topic 3 - Equations, Calculations &	
	Electrolysis	Content and Assessment:
	Equations and Stoichiometry Review:	IGCSE Chemistry Student Textbook: Pages 38-63 Required Problems: 1-20 (pages 60-63)
14-18 July	 3.1 - Balancing Chemical Equations 3.2 - Relative Formula Mass 3.3 - Moles & Mass 3.4 - Conservation of Mass 	Revision Textbook: Pages 42-48 Lab Book: N/A
14 -10 July	3.5 - Calculating Mass in Reactions 3.8 - Molecular & Empirical Formulas 3.10 - Percentage Vield	Formative Assessments:
		Balancing Chemical Equations Relative Formula Mass Moles & Mass Conservation of Mass Calculating Mass in Reactions Molecular & Empirical Formulas Percentage Yield
		Exam Style Questions
	Topic 3 - Equations, Calculations &	Content and Assessment:
	Electrolysis 3.9 - Water of Crystallisation	IGCSE Chemistry Student Textbook:
	describe a test for the presence of water using anhydrous copper(II) sulfate	Pages 53 Required Problems: N/A
21 – 25 July	describe a physical test to show whether a sample of water is pure	Revision Textbook: Pages 50-51 Lab Book: N/A
		Formative Assessments:
		Water of Crystallisation
		Exam Style Questions
		Exam Style Questions Content and Assessment:
	Topic 3 - Equations, Calculations & Electrolysis	Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook: Pages 64-74
	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations	Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook: Pages 64-74 Required Problems: 1-13 (pages 72-74)
28 July- 1 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room	Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook: Pages 64-74 Required Problems: 1-13 (pages 72-74) Revision Textbook: Pages 53
28 July- 1 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp)	Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook: Pages 64-74 Required Problems: 1-13 (pages 72-74) Revision Textbook: Pages 53 Lab Book: N/A
28 July- 1 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp)	Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook: Pages 64-74 Required Problems: 1-13 (pages 72-74) Revision Textbook: Pages 53 Lab Book: N/A Formative Assessments:
28 July- 1 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp)	Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook: Pages 64-74 Required Problems: 1-13 (pages 72-74) Revision Textbook: Pages 53 Lab Book: N/A Formative Assessments: Gas Calculations
28 July- 1 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp)	Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook: Pages 64-74 Required Problems: 1-13 (pages 72-74) Revision Textbook: Pages 53 Lab Book: N/A Formative Assessments: Gas Calculations Exam Style Questions
28 July- 1 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp)	Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook: Pages 64-74 Required Problems: 1-13 (pages 72-74) Revision Textbook: Pages 53 Lab Book: N/A Formative Assessments: Gas Calculations Exam Style Questions Content and Assessment:
28 July- 1 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp) Topic 3 - Equations, Calculations & Electrolysis	Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook: Pages 64-74 Required Problems: 1-13 (pages 72-74) Revision Textbook: Pages 53 Lab Book: N/A Formative Assessments: Gas Calculations Exam Style Questions Content and Assessment: IGCSE Chemistry Student Textbook:
28 July- 1 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp) Topic 3 - Equations, Calculations & Electrolysis	Exam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)Revision Textbook:Pages 53Lab Book: N/AFormative Assessments:Gas CalculationsExam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74
28 July- 1 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp) Topic 3 - Equations, Calculations & Electrolysis 3.7 - Concentration Calculations (grams/dm^3)	Exam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)Revision Textbook:Pages 53Lab Book: N/AFormative Assessments:Gas CalculationsExam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)
28 July- 1 August 4 - 8 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp) Topic 3 - Equations, Calculations & Electrolysis 3.7 - Concentration Calculations (grams/dm^3) know what is meant by the terms: • solvent	Exam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)Revision Textbook:Pages 53Lab Book: N/AFormative Assessments:Gas CalculationsExam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)Revision Textbook:Pages 52
28 July- 1 August 4 - 8 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp) Topic 3 - Equations, Calculations & Electrolysis 3.7 - Concentration Calculations (grams/dm^3) know what is meant by the terms: • solvent • solute • solute • solute • solution	Exam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)Revision Textbook:Pages 53Lab Book: N/AFormative Assessments:Gas CalculationsExam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)Revision Textbook:Pages 52Lab Book: N/A
28 July- 1 August 4 - 8 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp) Topic 3 - Equations, Calculations & Electrolysis Joint Colspan="2">Calculations & Electrolysis 3.7 - Concentration Calculations (grams/dm^3) know what is meant by the terms: • solvent • solvent • solution • solution • solution • solution • solution	Exam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Revision Textbook:Pages 53Lab Book: N/AFormative Assessments:Gas CalculationsExam Style QuestionsIGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)Revision Textbook:Pages 52Lab Book: N/AFormative Assessments:
28 July- 1 August 4 - 8 August	Topic 3 - Equations, Calculations & Electrolysis 3.6 - Gas Calculations understand how to carry out calculations involving gas volumes and the molar volume of a gas (24 dm ³ and 24 000 cm ³ at room temperature and pressure (rtp) Topic 3 - Equations, Calculations & Electrolysis Joint Colspan="2">Joint Colspan="2">Calculations & Electrolysis Joint Colspan="2">Joint Colspan="2" Joint C	Exam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)Revision Textbook:Pages 53Lab Book: N/AFormative Assessments:Gas CalculationsExam Style QuestionsContent and Assessment:IGCSE Chemistry Student Textbook:Pages 64-74Required Problems: 1-13 (pages 72-74)Revision Textbook:Pages 52Lab Book: N/AFormative Assessments:Concentration Calculations (grams/dm^3)

	Topic 3 - Equations, Calculations & Electrolysis	Content and Assessment:
	3 11 - Electrolysis 1 – Introduction	IGCSE Chemistry Student Textbook:
	understand why covalent compounds do not conduct electricity	Pages 101-113
	understand why covaent compounds do not conduct electricity understand why ionic compounds conduct electricity only when molten c in aqueous solution	Required Problems: 1-6 (pages 112-113)
11 – 15 August	know that anion and cation are terms used to refer to negative and positive ions respectively	Revision Textbook: Pages 56-58
		Lab Book: N/A
		Formative Assessments:
		Electrolysis 1 – Introduction
		Exam Style Questions
	Topic 3 - Equations, Calculations &	
	Electrolysis	Content and Assessment:
	3.12 - Electrolysis 2 - Aluminium Oxide	IGCSE Chemistry Student Textbook:
		Pages 101-113
	understand why ionic compounds conduct electricity only when molten or in aqueous solution	Designed Darkhammer, 1.4 (assess 112, 112)
18 - 22	know that anion and cation are terms used to refer to negative and	Required Problems: 1-0 (pages 112-115)
August	positive ions respectively	Revision Textbook:
	describe experiments to investigate electrolysis, using inert electrodes, of molten compounds (including lead(II) bromide) and	Pages 56-58
	aqueous solutions (including sodium chloride, dilute sulfuric acid and conper(II) sulfate) and to predict the products	Lab Book: N/A
	write ionic half equations representing the reactions at the electrodes	Formative Assessments:
	during electrolysis and understand why these reactions are classified as oridation or reduction	Electrolysis 2 - Aluminium Oxide
		Exam Style Questions
	Topic 3 - Faustions Calculations $\&$	Content and Assessment:
	Electrolysis	IGCSE Chemistry Student Textbook:
	- - - -	Pages 101-113
	3.13 - Electrolysis 3 - Aqueous Solutions	Dequired Droblemon 1.6 (pages 112, 112)
25 - 29	understand why ionic compounds conduct electricity only when molten or in aqueous solution	Required Problems: 1-0 (pages 112-115)
August	know that anion and cation are terms used to refer to negative and positive ions respectively	Revision Textbook: Pages 56-58
	describe experiments to investigate electrolysis, using inert electrodes, of molten compounds (including lead(II) bromide) and	Lab Book: N/A
	aqueous solutions (including sodium chloride, dilute sulfuric acid and copper(II) sulfate) and to predict the products	Formative Assessments:
	write ionic half-equations representing the reactions at the electrodes	Electrolysis 3 – Aqueous Solutions
	during electrolysis and understand why these reactions are classified as oxidation or reduction	Exam Style Questions
	Topic 3 - Equations, Calculations &	
	Electrolysis	Content and Assessment: IGCSE Chemistry Student Textbook:
	Practical: The electrolysis of aqueous solutions using thert electrodes	Pages 101-113
	describe experiments to investigate electrolysis, using inert	Required Problems: 1-6 (pages 112-113)
1 - 5 September	electrodes, of molten compounds (including lead(II) bromide) and aqueous solutions (including sodium chloride, dilute sulfuric acid and copper(II) sulfate) and to predict the products	Revision Textbook: Pages 56-58
	write ionic half-equations representing the reactions at the electrodes	Lab Book: pages 18-22
	as oxidation or reduction	Formative Assessments:
		Practical: The electrolysis of aqueous solutions using inert electrodes

	Topic 3 Unit Test Semester Review	Content and Assessment: Topic 3 Test Review Sheet
8 - 12		Test Review Activities:
September		 Review keywords relating to the previous topics. Multiple-choice questions to review prior knowledge. Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise. Modelling how to answer questions. Students mark exemplar work using mark schemes.
15 -19 September	Final Exam Week	



Bangkok Christian College English Immersion Program Course Scope for Biology Mathayom 5 Semester 1/2025-2026 Teacher Rick Reinders



Date	Contents	Comments/
12 - 16 May	Introduction lesson (Teams, Onenote, expectations, skills, rules etc)	
19 - 23 May	Unit 1: Reproduction. 3.1 Reproduction Sexual and Asexual PRESENTATION	
26 – 30 May	Unit 1: Reproduction. 3.2 Reproduction Flowering Plants PRESENTATION	
2 – 6 June	Unit 1: Reproduction WORKSHEET	
9 – 13 June	Unit 1: Reproduction Review and Quiz	
16 – 20 June	Unit 2: Genetics. 3.4 Inheritance DNA and Genes PRESENTATION	
23 – 27 June	Unit 2: Genetics. 3.5 Inheritance Genetics PRESENTATION	
30 June - 4 July	Unit 2: Genetics WORKSHEET	
7 - 11 July	Unit 2: Genetics Review and Quiz	
14 -18 July	Unit 3: Cell Division. 3.6 Inheritance Cell Division PRESENTATION	
21 – 25 July	Unit 3: Cell Division. WORKSHEET	
28 July- 1		
August	Unit 3: Cell Division Review and Quiz	
4 - 8 August	Unit 4: Natural Selection and Evolution. 3.7 Inheritance Variation and Mutation PRESENTATION	
11 – 15 August	Unit 4: Natural Selection and Evolution. 3.8 Inheritance Evolution PRESENTATION	
18 - 22 August	Unit 4: Natural Selection and Evolution WORKSHEET	
25 - 29 August	Unit 4: Natural Selection and Evolution. Review and Quiz	
1 - 5 September	Reproduction and Genetics PROJECT	
8 - 12 September	Reproduction and Genetics PROJECT	
15 -19 September	Final Exam Week	



Course Scope for Physics Mathayom 5

Semester 1/2025-2026 Teacher Nicholas Barrett



Date	Contents	Comments/ Remarks
12 - 16 May	Experiment: Stress and Strain of a Spring	
19 - 23 May	Experiment: The period of a pendulum	
26 – 30 May	Experiment: The period of a mass-spring system	
2 – 6 June	Simple Harmonic Motion	
9 – 13 June	The motion graphs of bodies exhibiting $F = -kx$	
16 – 20 June	Free and forced oscillations and their real-life applications	
23 – 27 June	Resonance and damping	
30 June - 4 July	Hooke's Law	
7 - 11 July	Stress, Strain, Elastic potential and how Forces affect material shape	
14 -18 July	Turning effects of forces	
21 – 25 July	The principle of moments	
28 July- 1 August	The three conditions of equilibrium for static objects	
4 - 8 August	Test: Forces and static equilibrium	
11 – 15 August	Classical Wave Theory	
18 - 22 August	Phase difference and path difference of waves	
25 - 29 August	Wave interference	
1 - 5 September	Young's double-slit experiment	
8 - 12 September	Experiment: Standing waves and harmonics	
15 -19 September	Final Exam	



Course Scope for AI Foundations Mathayom 5



Semester 1/2025–2026 Teacher Miles Long

Date	Contents	
		Remarks
12 - 16 May	Teacher/student introductions. Go over class rules, grading system, and course outline. Set learning goals. Initial assessment of students' understanding of AI. Icebreaker activities with AI chatbots.	12 May Visakha Bucha
19 - 23 May	Unit 1-1: Introduction to AI – Understanding AI basics, types, and real- world applications. Exploring AI tools and their capabilities. Assessment: Reflection on AI's impact in daily life.	
26 - 30 May	Unit 1-2: AI as a Learning Tool – How AI can assist in studying and research. Practicing effective prompt engineering. Assessment: Students generate study materials using AI and verify accuracy.	
2 - 6 June	Unit 1-3: AI and Creativity – Exploring AI-generated writing, art, and music. Ethical concerns in AI creativity. Assessment: Students refine AI-generated content to improve originality.	Queen's Birthday 2- 3 June
9 - 13 June	Unit 1-4: AI and Critical Thinking – Recognizing AI bias and misinformation. Developing fact-checking strategies. Assessment: Students analyze AI responses and correct inaccuracies.	
16 - 20 June	Unit 1-5: AI Ethics – Discussing responsible AI use, privacy, and bias. Case study analysis.	
22 - 27 June	Unit 1-6: AI in Problem-Solving – Identifying real-world problems and AI's role in addressing them. Assessment: Students propose AI-based solutions to global issues.	
30 June - 4 July	Unit 1-7: AI in Different Industries – Exploring AI applications in healthcare, finance, and education.	
7 - 11 July	Unit 1-8: AI for Personal Productivity – Using AI for organization, writing assistance, and project management. Assessment: Students optimize a task using AI.	10 July Asalha Bucha
14 - 18 July	Unit 1-9: Final Project Planning – Students begin their AI-based project, focusing on solving a real-world problem.	
21 - 25 July	Unit 2-1: AI and Data – Understanding how AI processes data. Ethical considerations of AI data collection.	
28 July - 1 August	Unit 2-2: AI and Decision-Making – How AI makes predictions and its impact on business and society.	28 July King's Birthday

4 - 8 August	Unit 2-3: AI and Bias – Identifying and mitigating AI bias. Case studies on biased AI decisions.	
11 – 15 August	Unit 2-4: AI and Human Collaboration – Understanding how AI enhances human skills. Group discussion.	12 August Mother's Day
18 - 22 August	Unit 2-5: AI and Future Trends – Exploring advancements in AI and their potential impact.	
25 - 29 August	Unit 2-6: AI and Creativity Revisited – Experimenting with AI- generated projects and refining results.	
1 - 5 September	Unit 2-7: Final Project Presentations – Students present their AI projects, showcasing how they used AI responsibly.	
8 - 12 September	Final Exam Week	



Course Scope for English Mathayom 5



Semester 1/2025-2026 Teacher Drew Schwarzer

Data	Contents	
Date		
	Introduction to the Course Module 5: Travel and Tourism Springboard	12 May
12 - 16 May	1: Transport, Travel & Places to visit. Springboard 2: Places for	Visakha
	Tourists	Bucha
19 - 23 May	Unit 1: Destinations	
26 - 30 May	Unit 2: Travel	
		Queen's
2 - 6 June		Birthday 2-
	Unit 3: Accommodation	3 June
9 – 13 June	Unit 4: Responsible Tourism	
16 – 20 June	Unit 5: Advantages & Disadvantages of a Gap Year	
22 – 27 June	Unit 6: Planning a City Tour	
30 June - 4		
July	Project: Travel Pamphlet and Info Graphic	
		10 July
7 - 11 July		Asalha
	Midterm	Bucha
14 - 18 July	Module 6: The Environment Springboard 1: Environmental Issues Springboard 2: The Natural Environment	
21 – 25 July	Unit 1: Sustainable Development Goals	
28 July 1		28 July
20 July - 1 August		King's
August	Unit 2: Environmental Change	Birthday
4 - 8 August	Unit 3: Green Projects	
		12 August
11 – 15 August		Mother's
	Unit 4: Greenwashing	Day
18 - 22 August	Unit 5: The Ocean Cleanup	
25 - 29 August	Unit 6: The Circular Economy	
1 - 5		
September	Project: Green Project Pamphlet and Info Graphic	
8 - 12		
September	Review for Finals	
	Final Exam Week	





Course Scope for Project Science and Technology Mathayom 5



Semester 1/2025-2026 Teacher Steven Fournier

Date	Contents	Comments/ Remarks
12 - 16 May	Biology: Review: Ecology and the Environment. (163-195) Project 1 : Give examples of where animals/plants have had extremely positive or extremely negative interactions with their environment.	
19 - 23 May	Biology: Variation and Selection. (197-210) Look at chromosomes, genes and Dna. Look at mitosis and meiosis and how cells are made. Look at punnet squares and transference of genetic traits. Worksheet 1: Punnet Squares.	
26 – 30 May	Lab—Extracting DNA from a strawberry. Video Biology. Variation and Selection. (Genes and Inheritance) Genes and inheritance, passing of good and bad genes, natural selection evolution and selective breeding. (211-236)	
2 – 6 June	Review Units 4 and 5 and have Quiz 1. Present Project 1 after quiz	
9 – 13 June	Physics: Solids, liquids and gases. Discuss density and pressure (pg 612-622) Worksheet 2	
16 – 20 June	Physics: (623-635) Solids, Liquids and gases. Energies involved in changed states as well as gas laws, $p1v1 = p2v2$, absolute zero, the kelvin scale. Students will be given concept questions based on aspects of density and pressure and asked to answer in presentation like format as Project 2 .	
23 – 27 June	Concept questions presentations. Review for Quiz 2	
30 June - 4 July	Quiz 2 on Pressure. Prepare for Midterms based on Unit 4 and 5 in Biology and Unit 5 in Physics. Students have time to catch up on due work.	
7 - 11 July	Midterms and Catching up on missing work, Councelling as to scores and desired outcomes. + Early Presentation of concept questions for Project 2.	
14 -18 July	Physics Unit 6: Magnetism and Electromagnetism. Pg 639-646. Investigating a magnetic field, creating a magnetic field. Explaining how a circuit breaker uses excessive energy to turn off a switch.	
21 – 25 July	Physics Unit 6: Page 646-655. Electric motors and induction, look at how a generator makes current.	
28 July- 1 August	Quiz 3: on Unit 6. Project 2 finish + the concept questions on Magnetism plus some orienteering fun (learning how to use a compass). Oral Presentation individual.	
4 - 8 August	Chemistry: Review Unit 1: Balancing Equations, calculating moles/g, relative mass. Calculations. 290-315.	
11 – 15 August	Worksheet 3. Stoichiometry. Figuring out how much reactant you need if given an amount of a sample. Quiz: Chemistry Test.	
18 - 22 August	Chemistry: Ionic Bonding, Covalent Bonding 316-342.	
25 - 29 August	Chemistry: Acids and Bases, 386-397. Lab—making a natural indicator with red cabbage. Test 4: Chemistry	
1 - 5 September	Review Biology 4,5 and Chemistry 1. Project 4: Presentation of a chemical reaction in class with safety and explanation. Worksheet 4: Review for Exams.	
8 - 12	Review: Biology Units 4 and 5, Physics 5, 6 Chemistry 1 and acids and	
September	bases. Mock exams and time given to get students caught up.	
15 -19 September	Final Exam Week	



Bangkok Christian College English Immersion Program Course Scope for Project Science and Technology Mathayom 5 Semester 1/2025-2026 Teacher Steven Fournier



Date Contents		Comments/
		Remarks
12 - 16 May	Physic review of Units 1-4. Introduction into Unit 5: Solid, Liquids and gases. States of Matter (Chemistry_259-266) Project 1: Create a machine that uses pressure to perform a task. (3 weeks) water pressure, air pressure, demonstrations.	
19 - 23 May	Physics: Unit 5: Solids, liquids and gases. Pg 621-628. Density, pressure, and pressures at depths.	
26 – 30 May	Worksheet 1: Pressure. Physics: Unit 5: Finish 628 and do unit questions in groups.	
2 – 6 June	Project 1 : Presentation of pressure projects. Marked on oral presentation as well as demonstration and physical creations.	
9 – 13 June	Unit 5; Solids, Liquids, and Gases. Pg 629-637, Gas Laws, p1v1=p2v2, absolute zero. Kelvin scale Quiz 1: Pressure.	
16 – 20 June	Unit 5: Concept Questions + Presentations (groups of 2 max) based on pressure questions. Worksheet 2: Interview of individual students on Concept questions for an oral score	
23 – 27 June	Finish Unit 5 and do final Unit questions in class. Also some sample questions from past papers to test comprehension.	
30 June - 4 July	Quiz 2: Pressure + Fluid dynamics (from concept questions). Review Unit 5	
7 - 11 July	Review + catch up on missing assignments. Council on grades + Midterms.	
14 -18 July	Introductions of Fluids (via Teams) and look at situations of Pressure and states of change.	
21 – 25 July	External material on teams of Fluid (chapter 15) to States of change and (chapter 16) and Laws of Thermodynamics (Unit 17)	
28 July- 1 August	States of Change and Thermodynamics	
4 - 8 August	Project 2: Demonstrate examples of states of change in industry and explain their usefulness. (Groups up to 4 max)	
11 – 15 August	Laws of Thermodynamics, introduction to concepts and calculations. Worksheet 2	
18 - 22 August	Presentation 1: Concept Questions on Fluids, States of Change, and Laws of Thermodynamics. S tudents will be presented with a question and explain using presentation material and demonstrations if possible.	
25 - 29 August	Project 2 Demonstrations, live class presentations. Exhibit work done by pressure.	
1 - 5 September	Quiz 4: on Chapters of Fluids, States of Change, and Laws of Thermodynamics.	
8 - 12 September	Review of Unit 5, Fluid dynamics, States of Change, Thermodynamics (from Walker) + Students finishing outstanding work and council on grades. Unit 6: Chapters on Magnetism and Electromagnetism	
15 -19 September	Final Exam Week	



Bangkok Christian College English Immersion Program Course Scope for Computer Mathayom 5 Semester 1/2025-2026 Teacher James Cookson



Date	Contents	Comments/
		Remarks
12 - 16 May	Python Programming Introduction	
19 - 23 May	Python - Variables	
26 – 30 May	Python – Basic Math	
2 – 6 June	Python – Data types	
9 – 13 June	Python – Strings/Inputs	
16 – 20 June	Python – If/Else	
23 – 27 June	Python – Arrays	
30 June - 4 July	Python – Dictionaries	
7 - 11 July	Python – Midterm Exam	
14 -18 July	Python - Functions	
21 – 25 July	Python – Functions 2	
28 July- 1 August	Python –For Loops	
4 - 8 August	Python – While Loops	
11 – 15 August	Python – Shop and Basket App	
18 - 22 August	Python – Shop and Basket App 2	
25 - 29 August	Python – Introduction to Group Final Project	
1 - 5 September	Python - Group Final Project	
8 - 12 September	Python - Group Final Project	
15 -19 September	Python - Group Final Project	



Course Scope for Health and Physical Education Mathayom 5

Semester 1/2025-2026 Teacher Benjamin Peter Fishman



Data	Contents	Comments/
Date	Contents	Remarks
12 - 16 May	Teacher Introduction	
19 - 23 May	Course Theme Introduction	
26 – 30 May	Biodata collection week	
2 – 6 June	Bodybuilding overview	
9 – 13 June	Bodybuilding upper body	
16 – 20 June	Bodybuilding lower body	
23 – 27 June	Cardiovascular workout	
30 June - 4 July	Yoga workout	
7 - 11 July	Stretching overview	
14 -18 July	Nutrition Lesson	
21 – 25 July	Nutrition quiz	
28 July- 1 August	Combat sports overview	
4 - 8 August	Boxing footwork drills	
11 – 15 August	Boxing drills	
18 - 22 August	Local Sports project intro	
25 - 29 August	Local Sports project	
1 - 5 September	Local Sports project presentation	
8 - 12 September	Course theme debrief	
15 -19 September	Final Exam Week	



Course Scope for South-East Asia Mathayom 5



Semester 1/2025-2026 Teacher Andrew Hailstone

Date	Contents	
		Remarks
		12 May
12 - 16 May	Stats and analysis of the countries of South-East Asia	Visakha
		Bucha
19 - 23 May	Analysis of the structure of the Governments of A.S.E.A.N. Part 1	
	Analysis of the structure of the Governments of A.S.E.A.N. Part 2 and Thai	
26 - 30 May	Governmental structure analysis	
	Review and Structure of Governments Test	Queen's Birthday
2 - 6 June	To view and budgetie of Governments rest	2-3 June
	History of A.S.E.A.N.; previous attempts at organizations, and conflict between the 5	
9 – 13 June	nations.	
16 – 20 June	Development of A.S.E.A.N.; origins, motivations, and growth	
22 – 27 June	Review and History of A.S.E.A.N. Test	
30 June - 4 July	East Timor membership	
	Map analysis of the rise and decline of the Brunei empire	10 July
7 - 11 July		Asalha Bucha
14 - 18 July	Analysis of Brunei's history and its formation as a country and its economic basis	
21 – 25 July	Political control of the people by the Sultan	
28 July - 1	Review and Brunei Test	28 July King's
August		Birthday
4 - 8 August	East Timor Analysis of Colonial History and Indonesian Control	
	East Timor Analysis of the beginning of the end, independence and hopes for the	
11 – 15 August		12 August
- ie magabe	future	Mother's Day
18 - 22 August	Review and East Timor Test	
25 - 29 August	Burma; The Anglo Burmese Wars and World War 2 analysis	
1 - 5 September	After World War 2 analysis and a Modern Burma analysis	
8 - 12	Attempts at Democracy and models of development	
September		



Course Scope for Mathematics Mathayom 5



Semester	1/2025-2026	Teacher	Mark Street
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12-16 May	Introduction to Algebraic Methods; Algebraic Fractions	Comments/ 12 May - Visakha Bucha
19-23 May	Remainder Theorem; Descartes Rule of Signs	
26-30 May	Dividing Polynomials; Factor Theorem	
2-6 Jun.	Mathematical Proof; Methods of Proof	2-3 Jun Queen Mother's Birthday
9-13 Jun.	Pascal's Triangle; Factorial Notation; Sigma Notation	
16-20 Jun.	The Binomial Expansion; Solving Binomial Problems	
23-27 Jun.	Binomial Estimation;	
30 Jun4 Jul.	Introduction to Trigonometric Ratios; The Cosine Rule	
7-11 Jul.	The Sine Rule; Areas of Triangles; Solving Triangle Problems	10 Jul Asalha Bucha
14-18 Jul.	Graphs of Sine, Cosine, and Tangent	
21-25 Jul.	Transforming Trigonometric Graphs; Mixed Exercise	
28 Jul1 Aug.	Angles in All Four Quadrants; Exact Values of Trigonometric Ratios	28 Jul King's Birthday
4-8 Aug.	Trigonometric Identities; Simple Trigonometric Equations	
11-15 Aug.	Harder Trigonometric Equations; Equations and Identities	11-12 Aug Queen's Birthday
18-22 Aug.	Applications of Trigonometric Equations; Mixed Exercise	
25-29 Aug.	Advanced Problem-Solving Techniques;	
1-5 Sept.	Mixed Practice for Exams	
8-12 Sept.	Review for Final Exam	
15-19 Sept.	Final Exam Week	



Course Scope for Mathematics Mathayom 5



Semester 1/2025-2026 Teacher Mark Street

12-16 May	Basic Algebraic Operations; Simplifying Expressions	Comments/ 12 May - Visakha Bucha
19-23 May	Understanding Factors, Multiples, and Divisibility Rules	
26-30 May	Expanding and Factorizing Simple Expressions	
2-6 Jun.	Basic Proof Concepts; Introduction to Logic Statements	2-3 Jun Queen Mother's Birthday
9-13 Jun.	Pascal's Triangle and Simple Expansions	
16-20 Jun.	Basic Binomial Expansions and Simple Calculations	
23-27 Jun.	Introduction to Estimation and Approximation	
30 Jun4 Jul.	Fundamentals of Right-Angled Trigonometry	
7-11 Jul.	Using Pythagoras' Theorem and Basic Trig Ratios	10 Jul Asalha Bucha
14-18 Jul.	Introduction to Graphing Sine, Cosine, and Tangent	
21-25 Jul.	Transformations of Simple Graphs and Basic Interpretation	
28 Jul1 Aug.	Angles in Right-Angled Triangles; Simple Applications	28 Jul King's Birthday
4-8 Aug.	Solving Basic Trigonometric Equations	
11-15 Aug.	Basic Trigonometric Identities and Simple Manipulations	11-12 Aug Queen's Birthday
18-22 Aug.	Applications of Trigonometry in Simple Real-Life Problems	
25-29 Aug.	More real-life problem solving	
1-5 Sept.	Mixed Practice with Exam Questions	
8-12 Sept.	Review for Final Exam	
15-19 Sept.	Final Exam Week	