Bangkok Christian College English Immersion Program

Course Scope for Southeast Asia 2 Mathayom 5

Semester 2/2024-2025 Teacher Andrew Hailstone

Date	Contents	Comments/ Remarks
25 October	Singapore	
28 October – 1 November	Singapore	
4 - 8 November	Singapore	
11 - 15 November	Laos	
18 - 22 November	Laos	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Laos	
9 – 13 December	Laos	
16 – 20 December	Indonesia	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Indonesia	
13 – 17 January	Indonesia	
20 - 24 January	Indonesia	
27 – 31 January	Indonesia	
3 – 7 February	Revision	
10 – 14 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Biology Matthayom 5

Semester 2/2024-2025 Teacher Rick Reinders

Date	Contents	Comments/ Remarks
25 October	Unit 4: Skeletal System Overview of the Human Skeleton	
28 October – 1 November	Bone Structure and Function	
4 - 8 November	Bone Growth and Development Joints and Movement Skeletal Disorders	
11 - 15 November	Unit5: Muscular System Types of Muscle Tissues Muscle Structure and Function Muscle Structure and Movement	
18 - 22 November	Role of Organ Systems in Movement	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Nervous Control of Muscles Muscle Tone and Exercise	
9 – 13 December	Muscle Contraction and Ion Movement	
16 – 20 December	Oxygen and Muscle Performance Muscle Sense	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 6: Integumentary System Skin Anatomy and Organization	
13 – 17 January	Epidermis and Cellular Function	
20 - 24 January	Dermis and Its Functions	
27 – 31 January	Cutaneous Senses and Secretions	
3 – 7 February	Skin Response to Environmental Factors Subcutaneous Layer and Aging Effects	
10 – 14 February	Review	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Chemistry Matthayom 5

Semester 2/2024-2025 Teacher Sepehr Massoumi Alamouti

Date	Contents	Comments/ Remarks
25 October	**Introduction** • Overview of Equilibrium I & Kinetics II • Overview of the Math requirements for Kinetics II	
28 October – 1 November	**Types of Chemical Reactions** • Introduction to types of reactions: Combination, Decomposition, Single & Double Displacement, Combustion, and Neutralization. • Predicting products and identifying reaction types. **Balancing Equations** • Full and ionic equations with state symbols.	
4 - 8 November	**Mole Concept and Calculations Review** • Understanding the mole, Avogadro's constant, and molar mass. • calculating moles. **Reacting Masses and Gas Calculations** • Using chemical equations to calculate reacting masses and identify limiting reagents. **Gas Calculations** • Molar volume of gases at RTP and STP. Introduction to the ideal gas equation	
11 - 15 November	**Introduction to Dynamic Equilibrium** • **Define dynamic equilibrium:** Conditions under which equilibrium is reached. • **Characteristics:** Rate of forward reaction = rate of backward reaction. Concentrations remain constant. • **Examples** of reversible reactions in closed systems.	
18 - 22 November	**Factors Affecting Equilibrium Position** • **Le Chatelier's Principle**: Predicting and justifying the effects of changes in concentration, temperature, and pressure. • Qualitative analysis of how equilibrium shifts. • **Practical Activity**: Investigate the effect of concentration and temperature using a reversible reaction	
25 – 29 November	*****Pearson Exams Week*****	
2 – 6 December	**Industrial Applications** • Evaluate the necessity of compromising between yield and rate in industrial processes. • **Haber Process**: Application of temperature, pressure, and catalyst. • **Contact Process**: Optimal conditions for sulfuric acid production.	

	• **Data Analysis**: Use provided data to analyze yield vs. rate trade-offs in various processes.	
9 – 13 December	**Equilibria: Practical**	
16 – 20 December	**Equilibria Review** **Unit Test** -	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	**Introduction to Reaction Kinetics** • Define key terms: rate of reaction, rate equation, order, rate constant, half-life, activation energy, and catalyst • **Rate Equations**: General form, rate=$k[A]^m[B]^n$. • **Order of Reaction**: Zero, first, and second order with respect to reactants. • Discuss examples of reactions with varying orders.	
13 – 17 January	**Determining the Rate of Reaction** • Calculate half-life from graphs. • Identifying reactions with a constant half-life as first order. • **Experimental Techniques** for rate determination: Titration, colorimetry, mass change, and gas volume.	
20 - 24 January	**Graphical Analysis of Reaction Rates** • **Concentration-Time Graphs**: Analyzing zero, first, and second-order reactions . • **Rate-Concentration Graphs**. • **Initial-Rate Method**: Obtaining reaction order using initial rates. • Practice plotting and interpreting graphs.	
27 – 31 January	**Reaction Mechanisms and Rate-Determining Step** • Using rate equations to deduce the rate-determining step . • Make predictions about species involved in the rate-determining step. • Deduce possible mechanisms from given data • **SN1 and SN2 Mechanisms**: Using kinetics data to distinguish between mechanisms in halogenoalkanes.	
3 – 7 February	**Determining Activation Energy** • Use **Arrhenius Equation**: $k=Ae^{-Ea/RT}$. • Determine activation energy graphically. • **CORE PRACTICAL**: Finding the activation energy of a reaction using a temperature-rate relationship.	
10 – 14 February	**Equilibria & Kinetics II Review**	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Mathematics Matthayom 5

Semester 2/2024-2025 Teacher Mark Street

Date	Contents	Comments/ Remarks
21 - 25 Oct.	All references here are following "Pure Mathematics 2 – Pearson Edexcel International A Level". Ch. 1: Algebraic Methods Topics: Algebraic fractions; Dividing polynomials; Factor theorem; Remainder theorem; Mathematical proof Revise: for IGCSE exam	21- 23 Oct. Contract Holiday 25 Oct. Students Return
28 Oct. - 1 Nov.	Ch. 2: Coordinate Geometry Topics: Midpoints, Bisectors; Equations of circles; Tangents; Intersection of lines and circles Revise: for IGCSE exam	
4 – 8 Nov.	Ch. 3: Exponents and Logs Topics: Logarithms and properties of; Solving equations	
11 - 15 Nov.	IGCSE Exams	
18 - 22 Nov.	Ch. 3 (Continued) Topics: Changing base; Solving real-world problems	
25 – 29 Nov.	Ch. 4: Binomial Expansion Topics: Pascal's Triangle; Factorial; Binomial Expansion	
2 - 6 Dec.	Topics: Solving binomial problems; Estimation	5 Dec. – Rama IX Birthday
9 - 13 Dec.	Ch. 5: Sequences and Series Topics: Arithmetic Sequences; Geometric Sequences	10 Dec. – Constitution Day
16 - 20 Dec.	Topics: Sigma Notation; Arithmetic and Geometric Series	
23 - 27 Dec.	(Holiday – No Classes)	24 Dec. – Christmas Parties 25 – 27 Dec. – Christmas Holiday

30 Dec.-3 Jan.	(Holiday – No Classes)	30 Dec. – 3 Jan. – Christmas Holiday
6 – 10 Jan.	Ch. 6: Trigonometric Equations and Identities Topics: Trigonometric values; Trig Identities and Equations	
13 - 17 Jan.	Topics: Harder trigonometric equations	16 Jan. – Teacher's Day
20 - 24 Jan.	Ch. 7: Differentiation Topics: Limits; Rates of Change; Sketching curves	
27 – 31 Jan.	Topics: Differentiation continued; solving problems	
3 - 7 Feb.	Ch. 8: Integration Topics: Definite and Indefinite Integrals; Area under the curve; Area under the X-axis; Trapezoid Rule	
10 - 14 Feb.	Review for Final Exam	12 Feb – Makha Bucha
17 - 21 Feb.	**Final Exam Week**	

Bangkok Christian College English Immersion Program

Course Scope for Physics Matthayom 5

Semester 2/2024-2025 Teacher Nicholas Barrett

Date	Contents	Comments/ Remarks
25 October	Introduction to Semester Two	
28 October – 1 November	The Fundamentals and Conservation of Electric Charge	
4 - 8 November	The Triboelectric Effect and Polarisation	
11 - 15 November	Coulomb's Law and Electrostatic Forces	
18 - 22 November	Electric Fields	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Electrostatics Lab	
9 – 13 December	Electric Current in Parallel and Series Circuits	
16 – 20 December	Potential Difference, Resistance and Ohm's Law	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Resistivity	
13 – 17 January	Further Characteristics of Electrical Circuits (Internal Resistance, Thermistors, LDR's and more)	
20 - 24 January	The Potential Divider	
27 – 31 January	Electricity: Project	
3 – 7 February	Electrical Work, Power, and Graphical interpretations of components in circuits	
10 – 14 February	Unit Test: Electrostatics and Electricity	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Science and Technology (Projects) Matthayom 5
Semester 2/2024-2025 Teacher Steven Fournier

Date	Contents	Comments/ Remarks
25 October	IGSCE: Unit 7: Radioactivity and Particles. Chapter 1 Atoms and Radioactivity. History/units/ pg 657-668	
28 October – 1 November	IGSCE: Unit 7: Radioactivity and Particles. Chapter 2. Radiation and Half-Life. 669-677	
4 - 8 November	Worksheets on Alpha, Beta and Gamma decay (2 worksheets) + halflife worksheets (1). Prepare for Test.	
11 - 15 November	Test 1. Radioactivity and Particles: decay, halflife, and atomic structure.	
18 - 22 November	IGSCE: Unit 7: Applications of Radioactivity. Look at a cyclotron used for making radioactive tracers. Pg 677-686	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	IGSCE: Unit 7: Fission and Fusion. Review of all chapters	
9 – 13 December	Test 2 on all chapters, plus research time for debate: Is Thailand ready for Nuclear Power? Why or Why not… Build evidence and avoid bias.	
16 – 20 December	Debate: Is Thailand ready for Nuclear Power? Why or why not? Forum discussion. (Speaking Assessment) Project 1.	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 8: IGSCE Astrophysics. Talk about how old cultures looked at the sky. Project 2 Create a poster of a space story/catastrophe. Pg 259-265	
13 – 17 January	Unit 8: IGSCE Astrophysics: Gravity, calculations and 4 fundamental forces. Stellar evolution. Pg 265-271	
20 - 24 January	Review of topics and worksheets on gravity.	
27 – 31 January	Project 2 due, Test 3 + feedback on scores	
3 – 7 February	IGCSE: Unit 8: Cosmology, 271-274. Big bang.	
10 – 14 February	Mock Final Exam(Test 2): Feedback on scores, wait for missing work/worksheet.	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program
Course Scope for General Science Matthayom 5
Semester 2/2024-2025 Teacher Steven Fournier

Date	Contents	Comments/ Remarks
25 October	Physics Unit 7: Radioactivity and Particles: (pg 657-669) Atoms and Radioactivity._	
28 October – 1 November	Physics Unit 7: Radioactivity and Particles (pg 669-677) Radiation and Half-life. Worksheet 1: Half life.	
4 - 8 November	Physics Unit 7: Radioactivity and Particles: (pg 677-694) Applications of Radioactivity and Fission/Fusion Quiz 1: Online. (657-694)	
11 - 15 November	One period for research, then Lab: Debate: Should Thailand invest in Nuclear energy. Points for and against with 4 teams: (For (current tech), Against (current tech), For (future tech [fusion, microfission…], Against (future tech [fusion, microfission])	
18 - 22 November	Debate continued if needed, Review + Test 1 (Radioactivity and Particles).	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	**Biology Review: Units 1-4. Animal Physiology, Plant Physiology, Ecology**	
9 – 13 December	Biology Review: Units 5/6 DNA and Microorganisms. Lab: Making Sauerkraut/Kimchi.	
16 – 20 December	Testing Sauerkraut/Kimchi Test 2: Biology Test Optional Activity: Planting seeds.	
23 – 27 December	**Finish up work, present Lab results, review Term 2 part 1**	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Chemistry Unit 2: Alkali Metals, Halogens, and Gases in the Atmosphere (345-358). Acids and Bases. (386-398)	
13 – 17 January	Chemistry Lab: Red Cabbage indicator. Quiz 2: Online Quiz on Chemistry.	
20 - 24 January	Test 2: Demonstration Test. Testing for pH. Worksheet 2 on chemical changes of acids and bases. Test 3	
27 – 31 January	Physics 8: Astrophysics. Introduction, looking at orbits, debating the need for space. Worksheet: Opinion on the future of space.	
3 – 7 February	Physics 8: Astrophysics: Motion of the Universe. Pg 695-701. Calculating orbits, looking at satalites.	
10 – 14 February	**Physics Unit 8: Astrophysics: Stellar formation. Look at stages of a star, planets, stars, galaxies, and universe Test 4 + Review for exam.**	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program
Course Scope for Physical Education Matthayom 5
Semester 2/2024-2025 Teacher Ben Fishman

Date	Contents	Comments/ Remarks
25 October	Ice Breaker/What is a health goal?	School Starts
28 October – 1 November	Fitness Test ● Burpees ● 40 yard dash ● Max jump height	
4 - 8 November	Supplements 101 ● Creatine ● Caffeine and why it's bad but actually good ● Multi-Vitamin	
11 - 15 November	Football ● Handling Drills ● Defensive Drills ● Live Games	
18 - 22 November	Basketball ● Handling Drills ● Defensive Drills ● Live Games	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	(Western) Boxing ● Why it's the safest but also the most dangerous ● How to wrap your wrists ● Other combat sports explained	
9 – 13 December	Western Boxing Drills ● Shadowboxing ● Footwork	
16 – 20 December	Western Boxing Drills ● Padwork	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	American Football ● Rules & Strategies ● 7 on 7 games	
13 – 17 January	Football 2.0 ● Handling Drills ● Defensive Drills ● Live Games	
20 - 24 January	Nutrition 101 ● Calculating Caloric Maintenance ● Safe Weight loss/gain ● "Gaintaing" and why it literally never works except for you	
27 – 31 January	Re-do Fitness Test ● Burpees ● 40 yard dash ● Max jump height	Results will be compared to the beginning of the semester
3 – 7 February	Capture the Flag	
10 – 14 February	End of Unit Assessments	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program
Course Scope for Chemistry Matthayom 5
Semester 2/2024-2025 Teacher Sepehr Massoumi Alamouti

Date	Contents	Comments/ Remarks
25 October	**Introduction** • Overview of Equilibrium I & Kinetics II • Overview of the Math requirements for Kinetics II	
28 October – 1 November	**Types of Chemical Reactions** • Introduction to types of reactions: Combination, Decomposition, Single & Double Displacement, Combustion, and Neutralization. • Predicting products and identifying reaction types. **Balancing Equations** • Full and ionic equations with state symbols.	
4 - 8 November	**Mole Concept and Calculations Review** • Understanding the mole, Avogadro's constant, and molar mass. • calculating moles. **Reacting Masses and Gas Calculations** • Using chemical equations to calculate reacting masses and identify limiting reagents. **Gas Calculations** • Molar volume of gases at RTP and STP. Introduction to the ideal gas equation	
11 - 15 November	**Introduction to Dynamic Equilibrium** • **Define dynamic equilibrium:** Conditions under which equilibrium is reached. • **Characteristics:** Rate of forward reaction = rate of backward reaction. Concentrations remain constant. • **Examples** of reversible reactions in closed systems.	
18 - 22 November	**Factors Affecting Equilibrium Position** • **Le Chatelier's Principle**: Predicting and justifying the effects of changes in concentration, temperature, and pressure. • Qualitative analysis of how equilibrium shifts. • **Practical Activity**: Investigate the effect of concentration and temperature using a reversible reaction	
25 – 29 November	*****Pearson Exams Week*****	
2 – 6 December	**Industrial Applications** • Evaluate the necessity of compromising between yield and rate in industrial processes. • **Haber Process**: Application of temperature, pressure, and catalyst. • **Contact Process**: Optimal conditions for sulfuric acid production. • **Data Analysis**: Use provided data to analyze yield vs. rate trade-offs in various processes.	

9 – 13 December	**Equilibria: Practical**	
16 – 20 December	**Equilibria Review** **Unit Test** -	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	**Introduction to Reaction Kinetics** • Define key terms: rate of reaction, rate equation, order, rate constant, half-life, activation energy, and catalyst • **Rate Equations**: General form, rate=$k[A]^m[B]^n$. • **Order of Reaction**: Zero, first, and second order with respect to reactants. • Discuss examples of reactions with varying orders.	
13 – 17 January	**Determining the Rate of Reaction** • Calculate half-life from graphs. • Identifying reactions with a constant half-life as first order. • **Experimental Techniques** for rate determination: Titration, colorimetry, mass change, and gas volume.	
20 - 24 January	**Graphical Analysis of Reaction Rates** • **Concentration-Time Graphs**: Analyzing zero, first, and second-order reactions . • **Rate-Concentration Graphs**. • **Initial-Rate Method**: Obtaining reaction order using initial rates. • Practice plotting and interpreting graphs.	
27 – 31 January	**Reaction Mechanisms and Rate-Determining Step** • Using rate equations to deduce the rate-determining step . • Make predictions about species involved in the rate-determining step. • Deduce possible mechanisms from given data • **SN1 and SN2 Mechanisms**: Using kinetics data to distinguish between mechanisms in halogenoalkanes.	
3 – 7 February	**Determining Activation Energy** • Use **Arrhenius Equation**: $k=Ae^{-Ea/RT}$. • Determine activation energy graphically. • **CORE PRACTICAL**: Finding the activation energy of a reaction using a temperature-rate relationship.	
10 – 14 February	**Equilibria & Kinetics II Review**	
17 - 21 February	*****Final Exams*****	

Bangkok Christian College English Immersion Program

Course Scope for Biology Matthayom 5
Semester 2/2024-2025 Teacher Rick Reinders

Date	Contents	Comments/ Remarks
25 October	Unit 4: Skeletal System Overview of the Human Skeleton	
28 October – 1 November	Bone Structure and Function	
4 - 8 November	Bone Growth and Development Joints and Movement Skeletal Disorders	
11 - 15 November	Unit5: Muscular System Types of Muscle Tissues Muscle Structure and Function Muscle Structure and Movement	
18 - 22 November	Role of Organ Systems in Movement	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Nervous Control of Muscles Muscle Tone and Exercise	
9 – 13 December	Muscle Contraction and Ion Movement	
16 – 20 December	Oxygen and Muscle Performance Muscle Sense	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 6: Integumentary System Skin Anatomy and Organization	
13 – 17 January	Epidermis and Cellular Function	
20 - 24 January	Dermis and Its Functions	
27 – 31 January	Cutaneous Senses and Secretions	
3 – 7 February	Skin Response to Environmental Factors Subcutaneous Layer and Aging Effects	
10 – 14 February	Review	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for English Matthayom

Semester 2/2024-2025 Teacher Scott Johnson

Date	Contents	Comments/ Remarks
25 October	Unit 1: Global Education Introduction to Global Education	
28 October – 1 November	Unit 1: Global Education School Types and Subjects	
4 - 8 November	Unit 1: School Life Global School Routines Writing: A day in Your School	
11 - 15 November	Unit 1: Classroom Behavior Future of Education Writing an Opinion Paragraph	
18 - 22 November	Unit 1: Trends in Education Research Trends in Education Finalize Project 1 Presentations	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Project 1: Group Presentation – "Future Trends in Education" Reflection on Project 1	
9 – 13 December	Unit 2: Jobs and Industries Job Ads and Writing Cover Letters	
16 – 20 December	Unit 2: Work Culture and Job Preferences	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 2: Writing a Resume	
13 – 17 January	Unit 2: Finalizing Resumes and Cover Letters	
20 - 24 January	Unit 2: Project 2 Preparation (Mock Job Interview)	
27 – 31 January	Project 2: Mock Job Interview + Report	
3 – 7 February	Review and Reflection Week	
10 – 14 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for M5 Literature Studies Matthayom 5

Semester 2/2024-2025 Teacher Scott Johnson

Date	Contents	Comments/ Remarks
25 October	Introduction to Rediscovering the Past	
28 October – 1 November	Famous Ancient Civilizations	
4 - 8 November	Project 1: Presentations – rediscovering the Past	
11 - 15 November	Introduction to Green Concerns	
18 - 22 November	Ecosystem Protection Efforts	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Green Technologies	
9 – 13 December	Project 2: Preparation – Green Concerns	
16 – 20 December	Project 2 Presentations – Green Concerns	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Reflection on Green Concerns	
13 – 17 January	Project Review and feedback	
20 - 24 January	Revisiting Rediscovering the Past: Secrets of Stonehenge	
27 – 31 January	Green Concerns: Your Water Footprint	
3 – 7 February	Review for the Final	
10 – 14 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Business English M514

Semester 2/2024-2025 Teacher Scott Johnson

Date	Contents	Comments/ Remarks
25 October	Unit 1: Communication Introduction	
28 October – 1 November	Unit 1: Communication Cross-cultural Communication	
4 - 8 November	Unit 1: Communication Email Writing	
11 - 15 November	Unit 1: Communication Project 1: Effective Business Communication	
18 - 22 November	Unit 2: International Marketing Introduction	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Unit 2: International Marketing Global Branding and Adaptation Project 1: Presentations	
9 – 13 December	Unit 2: International Marketing Advertising and Promotions	
16 – 20 December	Unit 3: Building Relationships Networking and Professional Relationships	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 3: Building Relationships Partnerships and Collaborations	
13 – 17 January	Unit 3: Building Relationships Trust and Loyalty in Business	
20 - 24 January	Review and Final Project 2 Preparation	
27 – 31 January	Project 2: Mock Business Negotiation “Building a Successful Partnership”	
3 – 7 February	In-class Final Exam	
10 – 14 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Multi-Media Studies M514

Semester 2/2024-2025 Teacher Scott Johnson

Date	Contents	Comments/ Remarks
25 October	Multi-Media Trends	
28 October – 1 November	Advanced Multi-Media Tools: hands-on Presentations	
4 - 8 November	Project 1: Preparation	
11 - 15 November	Project 1: Work Session	
18 - 22 November	Project 1: Presentations	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Intro to Video Editing	
9 – 13 December	Project 2: Preparation	
16 – 20 December	Project 2: Work Session	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Project 2: Presentations	
13 – 17 January	Introduction to Digital Graphics	
20 - 24 January	Project 3: Preparation	
27 – 31 January	Project 3: Presentations and Final Review	
3 – 7 February	In-class Final Exam	
10 – 14 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Mathematics Mathayom 5

Semester 2/2024-2025 Teacher Mark Street

Date	Contents	Comments/ Remarks
21 - 25 Oct.	All references here are following "Pure Mathematics 2 – Pearson Edexcel International A Level". Ch. 1: Algebraic Methods Topics: Algebraic fractions; Dividing polynomials; Factor theorem; Remainder theorem; Mathematical proof Revise: for IGCSE exam	21- 23 Oct. Contract Holiday 25 Oct. Students Return
28 Oct. - 1 Nov.	Ch. 2: Coordinate Geometry Topics: Midpoints, Bisectors; Equations of circles; Tangents; Intersection of lines and circles Revise: for IGCSE exam	
4 – 8 Nov.	Ch. 3: Exponents and Logs Topics: Logarithms and properties of; Solving equations	
11 - 15 Nov.	IGCSE Exams	
18 - 22 Nov.	Ch. 3 (Continued) Topics: Changing base; Solving real-world problems	
25 – 29 Nov.	Ch. 4: Binomial Expansion Topics: Pascal's Triangle; Factorial; Binomial Expansion	
2 - 6 Dec.	Topics: Solving binomial problems; Estimation	5 Dec. – Rama IX Birthday
9 - 13 Dec.	Ch. 5: Sequences and Series Topics: Arithmetic Sequences; Geometric Sequences	10 Dec. – Constitution Day
16 - 20 Dec.	Topics: Sigma Notation; Arithmetic and Geometric Series	
23 - 27 Dec.	(Holiday – No Classes)	24 Dec. – Christmas Parties 25 – 27 Dec. – Christmas Holiday

30 Dec.- 3 Jan.	(Holiday – No Classes)	30 Dec. – 3 Jan. – Christmas Holiday
6 - 10 Jan.	Ch. 6: Trigonometric Equations and Identities Topics: Trigonometric values; Trig Identities and Equations	
13 - 17 Jan.	Topics: Harder trigonometric equations	16 Jan. – Teacher's Day
20 - 24 Jan.	Ch. 7: Differentiation Topics: Limits; Rates of Change; Sketching curves	
27 – 31 Jan.	Topics: Differentiation continued; solving problems	
3 - 7 Feb.	Ch. 8: Integration Topics: Definite and Indefinite Integrals; Area under the curve; Area under the X-axis; Trapezoid Rule	
10 - 14 Feb.	Review for Final Exam	12 Feb – Makha Bucha
17 - 21 Feb.	**Final Exam Week**	

Bangkok Christian College English Immersion Program

Course Scope for English Matthayom

Semester 2/2024-2025 Teacher Scott Johnson

Date	Contents	Comments/ Remarks
25 October	Unit 1: Global Education Introduction to Global Education	
28 October – 1 November	Unit 1: Global Education School Types and Subjects	
4 - 8 November	Unit 1: School Life Global School Routines Writing: A day in Your School	
11 - 15 November	Unit 1: Classroom Behavior Future of Education Writing an Opinion Paragraph	
18 - 22 November	Unit 1: Trends in Education Research Trends in Education Finalize Project 1 Presentations	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Project 1: Group Presentation – "Future Trends in Education" Reflection on Project 1	
9 – 13 December	Unit 2: Jobs and Industries Job Ads and Writing Cover Letters	
16 – 20 December	Unit 2: Work Culture and Job Preferences	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 2: Writing a Resume	
13 – 17 January	Unit 2: Finalizing Resumes and Cover Letters	
20 - 24 January	Unit 2: Project 2 Preparation (Mock Job Interview)	
27 – 31 January	Project 2: Mock Job Interview + Report	
3 – 7 February	Review and Reflection Week	
10 – 14 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Multi-Media Studies M514

Semester 2/2024-2025 Teacher Scott Johnson

Date	Contents	Comments/ Remarks
25 October	Multi-Media Trends	
28 October – 1 November	Advanced Multi-Media Tools: hands-on Presentations	
4 - 8 November	Project 1: Preparation	
11 - 15 November	Project 1: Work Session	
18 - 22 November	Project 1: Presentations	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Intro to Video Editing	
9 – 13 December	Project 2: Preparation	
16 – 20 December	Project 2: Work Session	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Project 2: Presentations	
13 – 17 January	Introduction to Digital Graphics	
20 - 24 January	Project 3: Preparation	
27 – 31 January	Project 3: Presentations and Final Review	
3 – 7 February	In-class Final Exam	
10 – 14 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Physics Matthayom 5

Semester 2/2024-2025 Teacher Nicholas Barrett

Date	Contents	Comments/ Remarks
25 October	Introduction to Semester Two	
28 October – 1 November	The Fundamentals and Conservation of Electric Charge	
4 - 8 November	The Triboelectric Effect and Polarisation	
11 - 15 November	Coulomb's Law and Electrostatic Forces	
18 - 22 November	Electric Fields	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Electrostatics Lab	
9 – 13 December	Electric Current in Parallel and Series Circuits	
16 – 20 December	Potential Difference, Resistance and Ohm's Law	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Resistivity	
13 – 17 January	Further Characteristics of Electrical Circuits (Internal Resistance, Thermistors, LDR's and more)	
20 - 24 January	The Potential Divider	
27 – 31 January	Electricity: Project	
3 – 7 February	Electrical Work, Power, and Graphical interpretations of components in circuits	
10 – 14 February	Unit Test: Electrostatics and Electricity	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for M5 Literature Studies Matthayom 5

Semester 2/2024-2025 Teacher Scott Johnson

Date	Contents	Comments/ Remarks
25 October	Introduction to Rediscovering the Past	
28 October – 1 November	Famous Ancient Civilizations	
4 - 8 November	Project 1: Presentations – rediscovering the Past	
11 - 15 November	Introduction to Green Concerns	
18 - 22 November	Ecosystem Protection Efforts	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Green Technologies	
9 – 13 December	Project 2: Preparation – Green Concerns	
16 – 20 December	Project 2 Presentations – Green Concerns	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Reflection on Green Concerns	
13 – 17 January	Project Review and feedback	
20 - 24 January	Revisiting Rediscovering the Past: Secrets of Stonehenge	
27 – 31 January	Green Concerns: Your Water Footprint	
3 – 7 February	Review for the Final	
10 – 14 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Physical Education Matthayom 5

Semester 2/2024-2025 Teacher Ben Fishman

Date	Contents	Comments/ Remarks
25 October	Ice Breaker/What is a health goal?	School Starts
28 October – 1 November	Fitness Test ● Burpees ● 40 yard dash ● Max jump height	
4 - 8 November	Supplements 101 ● Creatine ● Caffeine and why it's bad but actually good ● Multi-Vitamin	
11 - 15 November	Football ● Handling Drills ● Defensive Drills ● Live Games	
18 - 22 November	Basketball ● Handling Drills ● Defensive Drills ● Live Games	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	(Western) Boxing ● Why it's the safest but also the most dangerous ● How to wrap your wrists ● Other combat sports explained	
9 – 13 December	Western Boxing Drills ● Shadowboxing ● Footwork	
16 – 20 December	Western Boxing Drills ● Padwork	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	American Football ● Rules & Strategies ● 7 on 7 games	
13 – 17 January	Football 2.0 ● Handling Drills ● Defensive Drills ● Live Games	
20 - 24 January	Nutrition 101 ● Calculating Caloric Maintenance ● Safe Weight loss/gain ● "Gaintaing" and why it literally never works except for you	
27 – 31 January	Re-do Fitness Test ● Burpees ● 40 yard dash ● Max jump height	Results will be compared to the beginning of the semester
3 – 7 February	Capture the Flag	
10 – 14 February	End of Unit Assessments	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Science and Technology (Projects) Matthayom 5

Semester 2/2024-2025 Teacher Steven Fournier

Date	Contents	Comments/ Remarks
25 October	IGSCE: Unit 7: Radioactivity and Particles. Chapter 1 Atoms and Radioactivity. History/units/ pg 657-668	
28 October – 1 November	IGSCE: Unit 7: Radioactivity and Particles. Chapter 2. Radiation and Half-Life. 669-677	
4 - 8 November	Worksheets on Alpha, Beta and Gamma decay (2 worksheets) + halflife worksheets (1). Prepare for Test.	
11 - 15 November	Test 1. Radioactivity and Particles: decay, halflife, and atomic structure.	
18 - 22 November	IGSCE: Unit 7: Applications of Radioactivity. Look at a cyclotron used for making radioactive tracers. Pg 677-686	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	IGSCE: Unit 7: Fission and Fusion. Review of all chapters	
9 – 13 December	Test 2 on all chapters, plus research time for debate: Is Thailand ready for Nuclear Power? Why or Why not… Build evidence and avoid bias.	
16 – 20 December	Debate: Is Thailand ready for Nuclear Power? Why or why not? Forum discussion. (Speaking Assessment) Project 1.	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 8: IGSCE Astrophysics. Talk about how old cultures looked at the sky. Project 2 Create a poster of a space story/catastrophe. Pg 259-265	
13 – 17 January	Unit 8: IGSCE Astrophysics: Gravity, calculations and 4 fundamental forces. Stellar evolution. Pg 265-271	
20 - 24 January	Review of topics and worksheets on gravity.	
27 – 31 January	Project 2 due, Test 3 + feedback on scores	
3 – 7 February	IGCSE: Unit 8: Cosmology, 271-274. Big bang.	
10 – 14 February	Mock Final Exam(Test 2): Feedback on scores, wait for missing work/worksheet.	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for General Science Matthayom 5

Semester 2/2024-2025 Teacher Steven Fournier

Date	Contents	Comments/ Remarks
25 October	Physics Unit 7: Radioactivity and Particles: (pg 657-669) Atoms and Radioactivity._	
28 October – 1 November	Physics Unit 7: Radioactivity and Particles (pg 669-677) Radiation and Half-life. Worksheet 1: Half life.	
4 - 8 November	Physics Unit 7: Radioactivity and Particles: (pg 677-694) Applications of Radioactivity and Fission/Fusion Quiz 1: Online. (657-694)	
11 - 15 November	One period for research, then Lab: Debate: Should Thailand invest in Nuclear energy. Points for and against with 4 teams: (For (current tech), Against (current tech), For (future tech [fusion, microfission…], Against (future tech [fusion, microfission])	
18 - 22 November	Debate continued if needed, Review + Test 1 (Radioactivity and Particles).	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	**Biology Review: Units 1-4. Animal Physiology, Plant Physiology, Ecology**	
9 – 13 December	Biology Review: Units 5/6 DNA and Microorganisms. Lab: Making Sauerkraut/Kimchi.	
16 – 20 December	Testing Sauerkraut/Kimchi Test 2: Biology Test Optional Activity: Planting seeds.	
23 – 27 December	**Finish up work, present Lab results, review Term 2 part 1**	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Chemistry Unit 2: Alkali Metals, Halogens, and Gases in the Atmosphere (345-358). Acids and Bases. (386-398)	
13 – 17 January	Chemistry Lab: Red Cabbage indicator. Quiz 2: Online Quiz on Chemistry.	
20 - 24 January	Test 2: Demonstration Test. Testing for pH. Worksheet 2 on chemical changes of acids and bases. Test 3	
27 – 31 January	Physics 8: Astrophysics. Introduction, looking at orbits, debating the need for space. Worksheet: Opinion on the future of space.	
3 – 7 February	Physics 8: Astrophysics: Motion of the Universe. Pg 695-701. Calculating orbits, looking at satalites.	
10 – 14 February	**Physics Unit 8: Astrophysics: Stellar formation. Look at stages of a star, planets, stars, galaxies, and universe Test 4 + Review for exam.**	
17 - 21 February	***Final Exams***	

Bangkok Christian College English Immersion Program

Course Scope for Business English M514

Semester 2/2024-2025 Teacher Scott Johnson

Date	Contents	Comments/ Remarks
25 October	Unit 1: Communication Introduction	
28 October – 1 November	Unit 1: Communication Cross-cultural Communication	
4 - 8 November	Unit 1: Communication Email Writing	
11 - 15 November	Unit 1: Communication Project 1: Effective Business Communication	
18 - 22 November	Unit 2: International Marketing Introduction	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Unit 2: International Marketing Global Branding and Adaptation Project 1: Presentations	
9 – 13 December	Unit 2: International Marketing Advertising and Promotions	
16 – 20 December	Unit 3: Building Relationships Networking and Professional Relationships	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 3: Building Relationships Partnerships and Collaborations	
13 – 17 January	Unit 3: Building Relationships Trust and Loyalty in Business	
20 - 24 January	Review and Final Project 2 Preparation	
27 – 31 January	Project 2: Mock Business Negotiation “Building a Successful Partnership”	
3 – 7 February	In-class Final Exam	
10 – 14 February	***Final Exams***	