



Bangkok Christian College English Immersion Program

Course Scope for Mathematics Mathayom 4 Track 1

Semester 2/2024-2025 Teacher Andrew Jolsin



Date	Contents	Comments/ Remarks
21 - 25 Oct.	Welcome back-Outline Semester 2 course Review Semester 1 Final Exam	21- 23 Oct. Contract Holiday 25 Oct. Students Return
28 Oct. - 1 Nov.	IGCSE Revision Straight lines Book 1 Pure Maths Linear Inequalities Quadratic Inequalities	
4 – 8 Nov.	Book 1 Pure Maths Chapter 3 Inequalities on Graphs IGCSE Revision - Regions	
11 - 15 Nov.	IGCSE- Trigonometry Sohcahtoa 3D Shapes and Trigonometry	
18 - 22 Nov.	IGCSE- Trigonometry Cosine Rule Sine rule	
25 – 29 Nov.	Mock IGCSE Exams	
2 - 6 Dec.	Book 1 Pure Maths Chapter 4 Translating Graphs Transforming Functions	5 Dec. – Rama IX Birthday
9 - 13 Dec.	Book 1 Pure Maths Chapter 6 The Sine Rule The Cosine Rule	10 Dec. – Constitution Day
16 - 20 Dec.	Book 1 Pure Maths Chapter 6 Areas of triangles Solving triangle problems	
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.	Book 1 Pure Maths Chapter 6 The Unit circle Graphing Trigonometric Functions	16 Jan. – Teacher’s Day
13 - 17 Jan.	Book 1 Pure Maths Chapter 7 Radians	
20 - 24 Jan.	Book 1 Pure Maths Chapter 7 Radians	
27 – 31 Jan.	Book 1 Pure Maths Chapter 8 Differentiation-First principles	
3 - 7 Feb.	Book 1 Pure Maths Chapter 8 Differentiation-First principles	
10 - 14 Feb.	Book 1 Pure Maths Chapter 9 Integration -antidifferentiation	12 Feb – Makha Bucha
17 - 21 Feb.	Final Exam Week	



Bangkok Christian College English Immersion Program

Course Scope for English Matthayom 4

Semester 2/2024-2025 Teacher Jeffrey Tedlow



Date	Contents	Comments/ Remarks
25 October	Unit 2 Writing Preparation Part 6 Speech and Communication <ul style="list-style-type: none"> • Finding equivalent expressions • Paraphrasing and summarizing <ul style="list-style-type: none"> • Communication Verbs 	Lessons taken from Ed Excel textbook <i>English as a Second Language</i> student book
28 October – 1 November	Unit 2 Writing Preparation Part 6 Speech and Communication <ul style="list-style-type: none"> • Past continuous verb tense • Past continuous and Past Simple tenses • Would and used to Assessment: Test on Writing Preparation Part 6 Assign project- students choose a scene from their favorite movie and perform it with additional imagined scene	
4 - 8 November	Unit 3 Listening Preparation Part 1 The World of Work <ul style="list-style-type: none"> • Discussion of students' ideal job • Listening for the overall message <ul style="list-style-type: none"> • Different types of speech <ul style="list-style-type: none"> • Listening for detail 	
11 - 15 November	Unit 3 Listening Preparation Part 1 The World of Work <ul style="list-style-type: none"> • Nouns focusing on the corporate world • WH questions and question tags <ul style="list-style-type: none"> • Sentence inversions Assessment: test on Listening preparation Part 1	
18 - 22 November	Listening Preparation Part 2 Pets <ul style="list-style-type: none"> • Identifying key points and detail • Identifying stated and implied viewpoints • Health and training collocations 	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Listening Preparation Part 2 Pets <ul style="list-style-type: none"> • Prepositions of time • Prepositions of Place and Movement Assessment: Test on Listening Preparation Part 2	
9 – 13 December	Listening Preparation Part 3 Games <ul style="list-style-type: none"> • Statements and implications <ul style="list-style-type: none"> • Facts and opinions 	

	<ul style="list-style-type: none"> • Adjectives and adverbs • Adverbs of frequency 	
16 – 20 December	<p>Listening Preparation Part 4 Shopping</p> <ul style="list-style-type: none"> *Identifying important information and details * Verbs and expressions related to shopping * Phrasal verbs (separable and non-separable) * Active and passive voice <p>Assessment: Test on Listening Preparation Parts 3 and 4</p>	
23 – 27 December	<p>***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***</p>	
30 December – 3 January	<p>***Christmas Holiday***</p>	
6 – 10 January	<p>Speaking Preparation Part 1 Fashion</p> <ul style="list-style-type: none"> • Pronunciation skills • Intonation and stress • Long and short vowels • Adjectives related to fashion 	
13 – 17 January	<p>Speaking Preparation Part 1 Fashion</p> <ul style="list-style-type: none"> • Past perfect, past continuous, and past simple tenses <p>Assessment: Test on Speaking Preparation Part 1</p>	
20 - 24 January	<p>Reading Practice Travel and Hospitality</p> <ul style="list-style-type: none"> • Distinguishing between facts, opinions, and ideas <ul style="list-style-type: none"> • Practicing word limits in answers <ul style="list-style-type: none"> • Summarizing • Nouns and verbs related to buildings • Conditionals (zero, first, second, and third) 	
27 – 31 January	<p>Writing Practice Work and Jobs</p> <ul style="list-style-type: none"> • Email writing language conventions • Phrasal verbs related to the workplace <ul style="list-style-type: none"> • Perfect continuous tenses <p>Assessment: Test on Reading and Writing Practice</p>	
3 – 7 February	<p>FINAL EXAM REVIEW</p>	
10 – 14 February	<p>***Final Exams***</p>	



Bangkok Christian College English Immersion Program

Course Scope for Anatomy Matthayom 4

Semester 2/2024-2025 Teacher Ian Spellman



Date	Contents	Comments/ Remarks
25 October	Introductions, Semester 1 Recap, Expectations, other important information	
28 October – 1 November	Cell Science Revision – Emerging Perspectives within cell science (Is the Cell <i>Really</i> a Machine?)	
4 - 8 November	Cell Science Revision – Emerging Perspectives within cell science (Is the Cell <i>Really</i> a Machine?)	
11 - 15 November	Genetics (Molecular Structure of DNA, Central Dogma model, critiques and alternative/competing models of DNA structure and function)	
18 - 22 November	Genetics (Molecular Structure of DNA, Central Dogma model, critiques and alternative/competing models of DNA structure and function)	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Environmental Toxicology (causes and effects of pollution of various forms on human and environmental health)	
9 – 13 December	Environmental Toxicology (causes and effects of pollution of various forms on human and environmental health)	
16 – 20 December	Ecology, Ecosystem Engineering, and Bioremediation	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Ecology, Ecosystem Engineering, and Bioremediation; Introduce Final Project Addressing this topic (details TBD)	
13 – 17 January	Introduction to Organic Chemistry (how to read a Line Angle Representation Molecular Model; Review of the Major Macromolecules and their role in Nutrition)	
20 - 24 January	Introduction to Organic Chemistry (how to read a Line Angle Representation Molecular Model; Review of the Major Macromolecules and their role in Nutrition)	
27 – 31 January	Sociobiology (The intersection of biological sciences and human societies; how can biology help us understand human behavior?)	
3 – 7 February	Sociobiology (The intersection of biological sciences and human societies; how can biology help us understand human behavior?)	
10 – 14 February	Final Projects and Loose Ends	
17 - 21 February		***Final Exams***



Bangkok Christian College English Immersion Program



Course Scope for Biology Matthayom 4

Semester 2/2024-2025 Teacher Rick Reinders

Date	Contents	Comments/ Remarks
25 October	Unit 4 – Transport Transport in Unicellular and Multicellular Organisms	
28 October – 1 November	Transport in Plants	
4 - 8 November	Transport in Animals	
11 - 15 November	The Heart and Circulatory System	
18 - 22 November	Review and Quiz Unit 4	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Unit 5 - Excretion Excretion in Plants	
9 – 13 December	Excretory Products in Humans The Kidney and Osmoregulation The Urinary System	
16 – 20 December	The Nephron Regulation of Water Content Composition of Urine	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 6 – Coordination and Response Plant Responses	
13 – 17 January	Coordination in Animals Nervous and Hormonal Communication	
20 - 24 January	The Eye and Vision Skin and Temperature Regulation	
27 – 31 January	Hormonal Control	
3 – 7 February	Unit 7 – Reproduction and Inheritance Types of Reproduction Plant Reproduction	
10 – 14 February	Human Reproduction Inheritance and Genetics	
17 - 21 February	***Final Exams***	



Date	Contents	Comments/ Remarks
25 October	Introduction <ul style="list-style-type: none">• Overview of chemical formulae, equations, and amount of substance.• Review of key terms: atom, element, ion, molecule, compound, empirical formula, and molecular formula.	
28 October – 1 November	Types of Chemical Reactions <ul style="list-style-type: none">• Introduction to types of reactions: Combination, Decomposition, Single & Double Displacement, Combustion, and Neutralization.• Predicting products and identifying reaction types. Balancing Equations <ul style="list-style-type: none">• Full and ionic equations with state symbols.	
4 - 8 November	Mole Concept and Calculations Review <ul style="list-style-type: none">• Understanding the mole, Avogadro's constant, and molar mass.• calculating moles. Empirical and Molecular Formulae: <ul style="list-style-type: none">• Derivation using experimental data.• Practice problems on empirical formulae and mole calculations.	
11 - 15 November	Reacting Masses and Gas Calculations <ul style="list-style-type: none">• Using chemical equations to calculate reacting masses and identify limiting reagents. Gas Calculations <ul style="list-style-type: none">• Molar volume of gases at RTP and STP.• Introduction to the ideal gas equation	
18 - 22 November	Solution Concentrations and Atom Economy <ul style="list-style-type: none">• Calculating concentrations• Using concentration in chemical equations. Percentage Yield and Atom Economy <ul style="list-style-type: none">• Importance in laboratory and industrial processes.• Practice problems: Calculating yield and atom economy.	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Relating Ionic and Full Equations to Observations: <ul style="list-style-type: none">• Displacement Reactions: Use of metals and halogens.	

	<ul style="list-style-type: none"> • Typical Reactions of Acids: Acid with metals, carbonates, and bases. • Precipitation Reactions: Formation of insoluble salts and writing balanced ionic equations. 	
9 – 13 December	<p style="text-align: center;">Core Practical 1: Measurement of the molar volume of a gas.</p> <ul style="list-style-type: none"> • Activity: Conduct the experiment, record observations, and calculate results. • Discussion: Evaluating experimental errors. 	
16 – 20 December	<p style="text-align: center;">Core Practicals (Extended)</p> <ul style="list-style-type: none"> • Preparation of a Salt and Yield Calculation: e.g., ammonium iron(II) sulfate. • Determination of a Chemical Formula: e.g., reduction of copper(II) oxide. • Determination of a Chemical Equation: e.g., reaction of magnesium with acid. • Interpreting Results of Test-Tube Reactions: Relate observations to chemical equations. 	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	<p style="text-align: center;">Bonding: Review of Ionic Bonding</p> <ul style="list-style-type: none"> • Formation of ions in terms of electron loss/gain <p style="text-align: center;">Properties of Ionic Compounds</p> <ul style="list-style-type: none"> • properties, migration of ions, electron density maps <p style="text-align: center;">Ionic Crystals</p> <ul style="list-style-type: none"> • Structure and lattice energy. 	
13 – 17 January	<p style="text-align: center;">Polarisation and Ionic Bonding</p> <ul style="list-style-type: none"> • Effects of ionic radius and charge on bonding. • Trends in ionic radii down a group and across a period. <p style="text-align: center;">Polarisation and Polarising Power</p> <ul style="list-style-type: none"> • Factors affecting polarisation of ions and how it affects ionic bonding. <p style="text-align: center;">Polarization and Bond Type:</p> <ul style="list-style-type: none"> • Understand the continuum from ionic to covalent bonding. 	

<p>20 - 24 January</p>	<p style="text-align: center;">Covalent Bonding</p> <ul style="list-style-type: none"> • Covalent bond formation: Sharing of electron pairs. • Dot-and-Cross Diagrams for covalent substances (single, double, and triple bonds). • Dative Covalent Bonds: Coordinate bonding in molecules like Al_2Cl_6 and NH_4^+. • Giant Covalent Structures: Graphite, diamond, graphene. 	
<p>27 – 31 January</p>	<p style="text-align: center;">Electronegativity and Polarity</p> <ul style="list-style-type: none"> • Electronegativity Trends: Factors affecting electronegativity. • Bond Polarity: Determining bond polarity based on electronegativity differences. • Molecular Polarity: Predicting polarity in molecules. • Shapes of Molecules: Electron-Pair Repulsion Theory, bond angles, and predicting shapes of simple molecules. 	
<p>3 – 7 February</p>	<p style="text-align: center;">Shapes of Molecules and Bond Angles</p> <ul style="list-style-type: none"> • Applying electron-pair repulsion theory to predict shapes and bond angles in molecules such as BeCl_2, BCl_3, CH_4, NH_3 and H_2O. • Bond Length and Bond Angle: Definitions and determining factors. 	
<p>10 – 14 February</p>	<p style="text-align: center;">Metallic Bonding and Properties of Metals</p> <ul style="list-style-type: none"> • Metallic Bonding: Giant lattice structure of metal ions in a sea of delocalized electrons. • Properties: Electrical conductivity, malleability, ductility, and high melting points. • Relate metallic bonding to the physical properties of metals. 	
<p>17 - 21 February</p>	<p>***Final Exams***</p>	



Bangkok Christian College English Immersion Program



Course Scope for Physics Matthayom 4

Semester 2/2024-2025 Teacher Nicholas Barrett

Date	Contents	Comments/ Remarks
25 October	Introduction to Semester Two	
28 October – 1 November	Density, Viscosity and Pressure (of Fluids)	
4 - 8 November	Stoke's Law	
11 - 15 November	Fluids: Laminar and Turbulent Flow	
18 - 22 November	Upthrust and Drag in Fluids	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Hydraulics calculations	
9 – 13 December	Assessment: Fluid Dynamics	
16 – 20 December	Turning moments, couples and torque	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Moment equilibrium and the principle of moments	
13 – 17 January	Centre of mass and application of the three conditions of equilibrium	
20 - 24 January	Assessment: Moments and Equilibrium	
27 – 31 January	Energy resources and generation of electricity	
3 – 7 February	Project: Energy resources and generation of electricity	
10 – 14 February	Unit Test: Fluid dynamics, moments and energy resources	
17 - 21 February	***Final Exams***	



Bangkok Christian College English Immersion Program

Course Scope for Mathematics Mathayom 4 Track 1

Semester 2/2024-2025 Teacher Andrew Jolsin



Date	Contents	Comments/ Remarks
21 - 25 Oct.	Welcome back-Outline Semester 2 course Review Semester 1 Final Exam	21- 23 Oct. Contract Holiday 25 Oct. Students Return
28 Oct. - 1 Nov.	IGCSE Revision Straight lines Book 1 Pure Maths Linear Inequalities Quadratic Inequalities	
4 – 8 Nov.	Book 1 Pure Maths Chapter 3 Inequalities on Graphs IGCSE Revision - Regions	
11 - 15 Nov.	IGCSE- Trigonometry Sohcahtoa 3D Shapes and Trigonometry	
18 - 22 Nov.	IGCSE- Trigonometry Cosine Rule Sine rule	
25 – 29 Nov.	Mock IGCSE Exams	
2 - 6 Dec.	Book 1 Pure Maths Chapter 4 Translating Graphs Transforming Functions	5 Dec. – Rama IX Birthday
9 - 13 Dec.	Book 1 Pure Maths Chapter 6 The Sine Rule The Cosine Rule	10 Dec. – Constitution Day
16 - 20 Dec.	Book 1 Pure Maths Chapter 6 Areas of triangles Solving triangle problems	
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.	Book 1 Pure Maths Chapter 6 The Unit circle Graphing Trigonometric Functions	16 Jan. – Teacher’s Day
13 - 17 Jan.	Book 1 Pure Maths Chapter 7 Radians	
20 - 24 Jan.	Book 1 Pure Maths Chapter 7 Radians	
27 – 31 Jan.	Book 1 Pure Maths Chapter 8 Differentiation-First principles	
3 - 7 Feb.	Book 1 Pure Maths Chapter 8 Differentiation-First principles	
10 - 14 Feb.	Book 1 Pure Maths Chapter 9 Integration -antidifferentiation	12 Feb – Makha Bucha
17 - 21 Feb.	Final Exam Week	



Bangkok Christian College English Immersion Program

Course Scope for Architects and Engineers Track 412 and 413

Semester 2 -2024-2025 Teacher Vincent Ellison



Date	Contents	Comments/ Remarks
26 th October – 29 th	<p>Calculate percentage increase/decrease of various amounts.</p> <p>Use the multiplier and know an increase is great than 1 and a decrease is less than 1.</p>	<p>Starters/Diagnostic questions.</p> <p>Pupil involvement</p> <p>Powe-point with examples to put in teams-general-file</p> <p>Assignments to be completed.</p>
26 th October – 29 th	<p>How to express “x” as a percentage of “y”.</p> <p>Will be able to find the percentage change.</p>	<p>Starters/Diagnostic questions.</p> <p>Pupil involvement</p> <p>Powe-point with examples to put in teams-general-file</p> <p>Assignments to be completed</p>
26 th October – 29 th	<p>Will be able to find the original value.</p> <p>Will be able to calculate values using simple and compound interest.</p>	<p>Starters/Diagnostic questions.</p> <p>Pupil involvement</p> <p>Powe-point with examples to put in teams-general-file</p> <p>Assignments to be completed</p>
1 st November- 5 th November	<p>Convert from unit to another using metric or imperial units.</p> <p>Convert area and volume measurements.</p>	<p>Starters/Diagnostic questions.</p> <p>Pupil involvement</p> <p>Powe-point with examples to put in teams-general-file</p> <p>Assignments to be completed</p>
1 st November- 5 th November	<p>Solve problems using formulae that includes speed, density and pressure.</p> <p>Be able to solve real life problems.</p>	<p>Starters/Diagnostic questions.</p> <p>Pupil involvement</p> <p>Powe-point with examples to put in teams-general-file</p> <p>Assignments to be completed</p>
1 st November- 5 th November	<p>Able to calculate angles on triangle, on a straight line, angles around a point and angles in a Quadrilateral.</p> <p>Able to calculate angles that include Parallel lines.</p>	<p>Starters/Diagnostic questions.</p> <p>Pupil involvement</p> <p>Powe-point with examples to put in teams-general-file</p> <p>Assignments to be completed</p>
8 th November - 12 th November	<p>Translate shapes in the “x” and “y” axes.</p> <p>Use vectors to translate shapes.</p>	<p>Starters/Diagnostic questions.</p> <p>Pupil involvement</p> <p>Powe-point with examples to put in teams-general-file</p> <p>Assignments to be completed</p>
8 th November - 12 th November	<p>Rotate shapes by using angle, direction and centre of rotation</p> <p>Describe their new rotation position</p>	<p>Starters/Diagnostic questions.</p> <p>Pupil involvement</p> <p>Powe-point with examples to put in teams-general-file</p>

		Assignments to be completed
8th November - 12th November	<p>Reflect shapes through mirror lines. Draw their new shapes through reflection or equations.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
8th November - 12th November	<p>Be able to enlarge shapes by using scale factor and centre of enlargement. Describe their enlargements.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
22nd November - 26th	<p>How to find areas using triangles and quadrilaterals. Know to substitute and rearrange formulae for given values.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
22nd November - 26th	<p>How to find areas of circles by using the formula. How to find circumference, sectors and segments of circles.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
22nd November - 26th	<p>Able to work through exam style questions, relating to previous work. Check their methods are clear</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
29th November – 3rd December	<p>Identify faces, edges and vertices. Use formula to calculate surface areas.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
29th November – 3rd December	<p>How to find volumes of cylinders, spheres, pyramids and cones Use formulae to calculate values.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
29th November – 3rd December	<p>Able to work through exam style questions, relating to previous work. Check their methods are clear.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>

6 th December – 10 th December	Able to find volumes of frustums by using the formula	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
6 th December – 10 th December	Be able to know how enlargements affect areas. Projections show 3D- Different viewpoints.	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
13 th December – 17 th December	Construct triangles using pencil, ruler protractor and compass. Use SSS,ASA,SAS AND RHS.	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
13 th December – 17 th December	Use the four rules when doing Loci	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
13 th December – 17 th December	able to work through exam style questions, relating to previous work check their methods are clear.	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
20 th December – 23 rd December	Constructing accurate angles	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
20 th December – 23 rd December	Drawing the perpendicular <ul style="list-style-type: none"> • Students will be able to read and use $f(x)$ notation when working with functions. • Students will be able to recognize domain and range. 	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
4 th January – 7 th January	How to use the key words, “FROM” “NORTH LINE” “CLOCKWISE” DO REAL LIFE PROBLEMS BY	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed

	DRAWING DIAGRAMS FROM WORDED QUESTIONS.	
4th January – 7th January	<p>Able to use the rule $a^2 + b^2 = c^2$ to find lengths of sides in 2-d RIGHT ANGLED TRIANGLES .</p> <p>Able to USE THEIR CALCULATORS to solve questions.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
4th January – 7th January	<p>Able to use SIN, COS and TAN in right angled triangles to find lengths of sides or unknown angles using the 3 ratios.</p> <p>Able to use inverse sin -1 etc to find angles.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
10th January – 14th January	Using Sine and cosine rule	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
10th January – 14th January	3D Pythagoras	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
10th January – 14th January	<p>Be able to identify sine and cosine formulae.</p> <p>Be able to find lengths of sides in 3D shapes.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
17th January – 21st January	<p>Know that an angle between line and plane can be used to form a right angled triangle.</p> <p>Use trigonometry and Pythagoras to find length of side or angle .</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>
17th January – 21st January	<p>Cosine and sine rules can also be used.</p> <p>Able to find lengths or angles with these ratios.</p>	<p>Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed</p>

17 th January – 21 st January	Able to solve problems with real life problems.	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
24 th January – 28 th January	Use vector notation	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
24 th January – 28 th January	Use vector notation	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
24 th January – 28 th January	Use vector notation	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
7 th February – 11 th February - Week	Problem solving/exam style questions 1	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
7 th February – 11 th February - Week	Problem solving/exam style questions 2	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed
7 th February – 11 th February - Week	Problem solving/exam style questions 3	Starters/Diagnostic questions. Pupil involvement Powe-point with examples to put in teams-general-file Assignments to be completed



Bangkok Christian College English Immersion Program

Course Scope for Physics Matthayom 4

Semester 2/2024-2025 Teacher Nicholas Barrett



Date	Contents	Comments/ Remarks
25 October	Introduction to Semester Two	
28 October – 1 November	Density, Viscosity and Pressure (of Fluids)	
4 - 8 November	Stoke's Law	
11 - 15 November	Fluids: Laminar and Turbulent Flow	
18 - 22 November	Upthrust and Drag in Fluids	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Hydraulics calculations	
9 – 13 December	Assessment: Fluid Dynamics	
16 – 20 December	Turning moments, couples and torque	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Moment equilibrium and the principle of moments	
13 – 17 January	Centre of mass and application of the three conditions of equilibrium	
20 - 24 January	Assessment: Moments and Equilibrium	
27 – 31 January	Energy resources and generation of electricity	
3 – 7 February	Project: Energy resources and generation of electricity	
10 – 14 February	Unit Test: Fluid dynamics, moments and energy resources	
17 - 21 February	***Final Exams***	



Angkok Christian College English Immersion Program

Course Scope for General Science Matthayom 4

Semester 2/2024-2025 Teacher Steven Fournier



Date	Contents	Comments/ Remarks
25 October	Biology Unit 3: Plant Physiology: pg 145-162. Chemical Coordination, reproduction.	
28 October – 1 November	<p align="center">Biology Unit 3: Plant Physiology Online Quiz 2, submit Lab 1</p> <p align="center">Project 1 on Energy: How plants give us energy (food chain, motion of energy).</p>	
4 - 8 November	Test 3: Plant Physiology. Check progress of seeds (Lab 2) Physics: Unit 3: Waves. Properties of Waves (pg 559-568)	
11 - 15 November	Test 1 + Feedback. Lab on Plants under a microscope.	
18 - 22 November	<p align="center">Physics Unit3: Waves: The electromagnetic spectrum (568-575).</p> <p align="center">Worksheet 3: uses of the electromagnetic spectrum. Project 1 due.</p>	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Physics: Unit 3: Waves. Properties of Waves (pg 559-568) Project 2: Demonstration of Sound or Light.	
9 – 13 December	Physics Unit 3: Light and Sound waves. Test 2: Waves. Review:	
16 – 20 December	Biology Unit 3, Physics Unit 3, Plant worksheets due,	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Physics Unit 2: Electricity. Pg 529-545. Mains Electricity. Power= Current x Voltage, Ohm's Law ($V=IR$) Worksheet 2 on Ohm's Law.	
13 – 17 January	Physics Unit 2: Electricity. Pg 545-558. Finish up electricity, look at circuits, make online with Phet, Project 1: Doing an experiment with a battery.	
20 - 24 January	Physics lab 1: Work. Comparing physical work to electrical work.	
27 – 31 January	Chemistry Unit 1: 276-290 review, moving forward into empirical formula, stoichiometry, + energetics (if time) pg 413-428.	
3 – 7 February	Chemistry Supplemental: Batteries. How they work, storing energy, transferring energy. Project 2: Doing an experiment with a battery. Making your own circuit.	
10 – 14 February	Review of Work Done: Mock Exam (Test 4) on Biology, Chemistry, and Physics.	
17 - 21 February	***Final Exams***	



Bangkok Christian College English Immersion Program



Course Scope for Anatomy Matthayom 4

Semester 2/2024-2025 Teacher Ian Spellman

Date	Contents	Comments/ Remarks
25 October	Introductions, Semester 1 Recap, Expectations, other important information	
28 October – 1 November	Cell Science Revision – Emerging Perspectives within cell science (Is the Cell <i>Really</i> a Machine?)	
4 - 8 November	Cell Science Revision – Emerging Perspectives within cell science (Is the Cell <i>Really</i> a Machine?)	
11 - 15 November	Genetics (Molecular Structure of DNA, Central Dogma model, critiques and alternative/competing models of DNA structure and function)	
18 - 22 November	Genetics (Molecular Structure of DNA, Central Dogma model, critiques and alternative/competing models of DNA structure and function)	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Environmental Toxicology (causes and effects of pollution of various forms on human and environmental health)	
9 – 13 December	Environmental Toxicology (causes and effects of pollution of various forms on human and environmental health)	
16 – 20 December	Ecology, Ecosystem Engineering, and Bioremediation	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Ecology, Ecosystem Engineering, and Bioremediation; Introduce Final Project Addressing this topic (details TBD)	
13 – 17 January	Introduction to Organic Chemistry (how to read a Line Angle Representation Molecular Model; Review of the Major Macromolecules and their role in Nutrition)	
20 - 24 January	Introduction to Organic Chemistry (how to read a Line Angle Representation Molecular Model; Review of the Major Macromolecules and their role in Nutrition)	
27 – 31 January	Sociobiology (The intersection of biological sciences and human societies; how can biology help us understand human behavior?)	
3 – 7 February	Sociobiology (The intersection of biological sciences and human societies; how can biology help us understand human behavior?)	
10 – 14 February	Final Projects and Loose Ends	
17 - 21 February		***Final Exams***



Angkok Christian College English Immersion Program
Course Scope for Science and Technology (Projects) Matthayom



Semester 2/2024-2025 Teacher Steven Fournier

Date	Contents	Comments/ Remarks
25 October	Quick Review of Units 1: Velocity, Energy, Deep dive into some kinematic velocity questions. Worksheet 1.	
28 October – 1 November	Unit 1: Velocity. Breaking questions. Solving multiple part questions continued. How velocity is converted to electricity.	
4 - 8 November	Physics Unit 2: Electricity. (pg. 59-95) Mains Electricity. Project 1: Making circuits. Look at complex systems and try to establish what is going on. Rectifiers, capacitors, inductor	
11 - 15 November	Physics Unit 2: Electricity. Current and Voltage. Electrical Resistance (Worksheet 2) Groupwork on making circuits.	
18 - 22 November	Test 1: Electricity and practice with past papers in prep for pearson exam.	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Physics Unit 3: Waves. Properties of waves. Pg 559-568. Review wavelength, types of waves, aspects of reflection and the Doppler effect. Physics Unit 3: Waves. The electromagnetic spectrum. Pg 568- 574.	
9 – 13 December	Physics Unit 3: Waves: The electromagnetic spectrum/light and sound pg 568-587. Quiz 1 online. Project 1 due.	
16 – 20 December	Lab 1: Internal reflection using sims. https://phet.colorado.edu/sims/html/bending-light/latest/bending-light_en.html Making a prism to make a rainbow. or make a periscope https://www.youtube.com/watch?v=N0LqI77DFBY Make a report in a team with and demonstrate your prism making a rainbow.+ Physics Unit 3: Waves review → Test 1 and feedback	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Project 2: Use two or more of the units we have covered to demonstrate an idea or invention. (Groups 6 max)	
13 – 17 January	Review of Chapters 1-4 with IGCSE papers. Online quiz 2: Chapters 1-4 (like a mini BMAT)	
20 - 24 January	Review of Chapter 1-4 with IGCSE past papers. Worksheet 2:	
27 – 31 January	Presentation of projects.	
3 – 7 February	Presenting projects continued if time, IGCSE content from Units 1-4 , Student interviews on concept questions and situational questions. (Presentation 1)	
10 – 14 February	Student interviews (Presentation 1) continued + Test 2: Units 1-4 Mock exam + practice questions. Prep for Exam	
17 - 21 February	***Final Exams***	



Date	Contents	Comments/ Remarks
25 October	<p style="text-align: center;">Introduction</p> <ul style="list-style-type: none">• Overview of chemical formulae, equations, and amount of substance.• Review of key terms: atom, element, ion, molecule, compound, empirical formula, and molecular formula.	
28 October – 1 November	<p style="text-align: center;">Types of Chemical Reactions</p> <ul style="list-style-type: none">• Introduction to types of reactions: Combination, Decomposition, Single & Double Displacement, Combustion, and Neutralization.• Predicting products and identifying reaction types. <p style="text-align: center;">Balancing Equations</p> <ul style="list-style-type: none">• Full and ionic equations with state symbols.	
4 - 8 November	<p style="text-align: center;">Mole Concept and Calculations Review</p> <ul style="list-style-type: none">• Understanding the mole, Avogadro's constant, and molar mass.• calculating moles. <p style="text-align: center;">Empirical and Molecular Formulae:</p> <ul style="list-style-type: none">• Derivation using experimental data.• Practice problems on empirical formulae and mole calculations.	
11 - 15 November	<p style="text-align: center;">Reacting Masses and Gas Calculations</p> <ul style="list-style-type: none">• Using chemical equations to calculate reacting masses and identify limiting reagents. <p style="text-align: center;">Gas Calculations</p> <ul style="list-style-type: none">• Molar volume of gases at RTP and STP.• Introduction to the ideal gas equation	
18 - 22 November	<p style="text-align: center;">Solution Concentrations and Atom Economy</p> <ul style="list-style-type: none">• Calculating concentrations• Using concentration in chemical equations. <p style="text-align: center;">Percentage Yield and Atom Economy</p> <ul style="list-style-type: none">• Importance in laboratory and industrial processes.• Practice problems: Calculating yield and atom economy.	
25 – 29 November	***Pearson Exams Week***	

<p>2 – 6 December</p>	<p>Relating Ionic and Full Equations to Observations:</p> <ul style="list-style-type: none"> • Displacement Reactions: Use of metals and halogens. • Typical Reactions of Acids: Acid with metals, carbonates, and bases. • Precipitation Reactions: Formation of insoluble salts and writing balanced ionic equations. 	
<p>9 – 13 December</p>	<p>Core Practical 1: Measurement of the molar volume of a gas.</p> <ul style="list-style-type: none"> • Activity: Conduct the experiment, record observations, and calculate results. • Discussion: Evaluating experimental errors. 	
<p>16 – 20 December</p>	<p>Core Practicals (Extended)</p> <ul style="list-style-type: none"> • Preparation of a Salt and Yield Calculation: e.g., ammonium iron(II) sulfate. • Determination of a Chemical Formula: e.g., reduction of copper(II) oxide. • Determination of a Chemical Equation: e.g., reaction of magnesium with acid. • Interpreting Results of Test-Tube Reactions: Relate observations to chemical equations. 	
<p>23 – 27 December</p>	<p>***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***</p>	
<p>30 December – 3 January</p>	<p>***Christmas Holiday***</p>	
<p>6 – 10 January</p>	<p>Bonding: Review of Ionic Bonding</p> <ul style="list-style-type: none"> • Formation of ions in terms of electron loss/gain <p>Properties of Ionic Compounds</p> <ul style="list-style-type: none"> • properties, migration of ions, electron density maps <p>Ionic Crystals</p> <ul style="list-style-type: none"> • Structure and lattice energy. 	
<p>13 – 17 January</p>	<p>Polarisation and Ionic Bonding</p> <ul style="list-style-type: none"> • Effects of ionic radius and charge on bonding. • Trends in ionic radii down a group and across a period. <p>Polarisation and Polarising Power</p> <ul style="list-style-type: none"> • Factors affecting polarisation of ions and how it affects ionic bonding. 	

	<p style="text-align: center;">Polarization and Bond Type:</p> <ul style="list-style-type: none"> • Understand the continuum from ionic to covalent bonding. 	
<p style="text-align: center;">20 - 24 January</p>	<p style="text-align: center;">Covalent Bonding</p> <ul style="list-style-type: none"> • Covalent bond formation: Sharing of electron pairs. • Dot-and-Cross Diagrams for covalent substances (single, double, and triple bonds). • Dative Covalent Bonds: Coordinate bonding in molecules like Al_2Cl_6 and NH_4^+. • Giant Covalent Structures: Graphite, diamond, graphene. 	
<p style="text-align: center;">27 – 31 January</p>	<p style="text-align: center;">Electronegativity and Polarity</p> <ul style="list-style-type: none"> • Electronegativity Trends: Factors affecting electronegativity. • Bond Polarity: Determining bond polarity based on electronegativity differences. • Molecular Polarity: Predicting polarity in molecules. • Shapes of Molecules: Electron-Pair Repulsion Theory, bond angles, and predicting shapes of simple molecules. 	
<p style="text-align: center;">3 – 7 February</p>	<p style="text-align: center;">Shapes of Molecules and Bond Angles</p> <ul style="list-style-type: none"> • Applying electron-pair repulsion theory to predict shapes and bond angles in molecules such as BeCl_2, BCl_3, CH_4, NH_3 and H_2O. • Bond Length and Bond Angle: Definitions and determining factors. 	
<p style="text-align: center;">10 – 14 February</p>	<p style="text-align: center;">Metallic Bonding and Properties of Metals</p> <ul style="list-style-type: none"> • Metallic Bonding: Giant lattice structure of metal ions in a sea of delocalized electrons. • Properties: Electrical conductivity, malleability, ductility, and high melting points. • Relate metallic bonding to the physical properties of metals. 	
<p style="text-align: center;">17 - 21 February</p>	<p>***Final Exams***</p>	



Angkok Christian College English Immersion Program

Course Scope for Biology Matthayom 4

Semester 2/2024-2025 Teacher Rick Reinders



Date	Contents	Comments/ Remarks
25 October	Unit 4 – Transport Transport in Unicellular and Multicellular Organisms	
28 October – 1 November	Transport in Plants	
4 - 8 November	Transport in Animals	
11 - 15 November	The Heart and Circulatory System	
18 - 22 November	Review and Quiz Unit 4	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Unit 5 - Excretion Excretion in Plants	
9 – 13 December	Excretory Products in Humans The Kidney and Osmoregulation The Urinary System	
16 – 20 December	The Nephron Regulation of Water Content Composition of Urine	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Unit 6 – Coordination and Response Plant Responses	
13 – 17 January	Coordination in Animals Nervous and Hormonal Communication	
20 - 24 January	The Eye and Vision Skin and Temperature Regulation	
27 – 31 January	Hormonal Control	
3 – 7 February	Unit 7 – Reproduction and Inheritance Types of Reproduction Plant Reproduction	
10 – 14 February 17 - 21 February	Human Reproduction Inheritance and Genetics ***Final Exams***	



Bangkok Christian College English Immersion Program



Course Scope for English Matthayom 4

Semester 2/2024-2025 Teacher Jeffrey Tedlow

Date	Contents	Comments/ Remarks
25 October	Unit 2 Writing Preparation Part 6 Speech and Communication <ul style="list-style-type: none"> • Finding equivalent expressions • Paraphrasing and summarizing <ul style="list-style-type: none"> • Communication Verbs 	Lessons taken from Ed Excel textbook <i>English as a Second Language</i> student book
28 October – 1 November	Unit 2 Writing Preparation Part 6 Speech and Communication <ul style="list-style-type: none"> • Past continuous verb tense • Past continuous and Past Simple tenses • Would and used to Assessment: Test on Writing Preparation Part 6 Assign project- students choose a scene from their favorite movie and perform it with additional imagined scene	
4 - 8 November	Unit 3 Listening Preparation Part 1 The World of Work <ul style="list-style-type: none"> • Discussion of students' ideal job • Listening for the overall message <ul style="list-style-type: none"> • Different types of speech <ul style="list-style-type: none"> • Listening for detail 	
11 - 15 November	Unit 3 Listening Preparation Part 1 The World of Work <ul style="list-style-type: none"> • Nouns focusing on the corporate world • WH questions and question tags <ul style="list-style-type: none"> • Sentence inversions Assessment: test on Listening preparation Part 1	
18 - 22 November	Listening Preparation Part 2 Pets <ul style="list-style-type: none"> • Identifying key points and detail • Identifying stated and implied viewpoints • Health and training collocations 	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Listening Preparation Part 2 Pets <ul style="list-style-type: none"> • Prepositions of time • Prepositions of Place and Movement Assessment: Test on Listening Preparation Part 2	
9 – 13 December	Listening Preparation Part 3 Games <ul style="list-style-type: none"> • Statements and implications 	

	<ul style="list-style-type: none"> • Facts and opinions • Adjectives and adverbs • Adverbs of frequency 	
16 – 20 December	<p>Listening Preparation Part 4 Shopping</p> <ul style="list-style-type: none"> *Identifying important information and details * Verbs and expressions related to shopping * Phrasal verbs (separable and non-separable) * Active and passive voice <p>Assessment: Test on Listening Preparation Parts 3 and 4</p>	
23 – 27 December	<p>***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***</p>	
30 December – 3 January	<p>***Christmas Holiday***</p>	
6 – 10 January	<p>Speaking Preparation Part 1 Fashion</p> <ul style="list-style-type: none"> • Pronunciation skills • Intonation and stress • Long and short vowels • Adjectives related to fashion 	
13 – 17 January	<p>Speaking Preparation Part 1 Fashion</p> <ul style="list-style-type: none"> • Past perfect, past continuous, and past simple tenses <p>Assessment: Test on Speaking Preparation Part 1</p>	
20 - 24 January	<p>Reading Practice Travel and Hospitality</p> <ul style="list-style-type: none"> • Distinguishing between facts, opinions, and ideas <ul style="list-style-type: none"> • Practicing word limits in answers <ul style="list-style-type: none"> • Summarizing • Nouns and verbs related to buildings • Conditionals (zero, first, second, and third) 	
27 – 31 January	<p>Writing Practice Work and Jobs</p> <ul style="list-style-type: none"> • Email writing language conventions • Phrasal verbs related to the workplace <ul style="list-style-type: none"> • Perfect continuous tenses <p>Assessment: Test on Reading and Writing Practice</p>	
3 – 7 February	<p>FINAL EXAM REVIEW</p>	
10 – 14 February	<p>***Final Exams***</p>	



Bangkok Christian College English Immersion Program

Course Scope for Literature Studies Matthayom 4

Semester 2/2024-2025 Teacher Jeffrey Tedlow



Date	Contents	Comments/ Remarks
25 October	Short story- <i>Lamb to the Slaughter</i> <ul style="list-style-type: none"> Introduction-explanation of dark humor, discussion about how people respond to unexpected change vocabulary 	
28 October – 1 November	Short story- <i>Lamb to the Slaughter</i> <ul style="list-style-type: none"> Read story 	
4 - 8 November	Short story- <i>Lamb to the Slaughter</i> <ul style="list-style-type: none"> Read story Students answer questions 	
11 - 15 November	Assessment- <i>Lamb to the Slaughter</i> test <ul style="list-style-type: none"> Introduction to <i>An Occurrence at Owl Creek Bridge</i>-brief explanation of the US Civil War 	
18 - 22 November	Short story-<i>An Occurrence at Owl Creek Bridge</i> <ul style="list-style-type: none"> Vocabulary Begin reading 	
25 – 29 November	<p style="text-align: center;">***Pearson Exams Week***</p>	
2 – 6 December	Short story-<i>An Occurrence at Owl Creek Bridge</i> <ul style="list-style-type: none"> Read Story 	
9 – 13 December	Short story-<i>An Occurrence at Owl Creek Bridge</i> <ul style="list-style-type: none"> Finish reading Students answer questions 	
16 – 20 December	Assessment- <i>An Occurrence at Owl Creek Bridge</i> test <ul style="list-style-type: none"> Introduction to <i>Contents of a Dead Man’s Pocket</i> short story- discussions about ambition, work/life balance, and risking one’s life 	
23 – 27 December	<p style="text-align: center;">***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***</p>	
30 December – 3 January	<p style="text-align: center;">***Christmas Holiday***</p>	
6 – 10 January	Short Story-<i>Contents of a Dead Man’s Pocket</i> <ul style="list-style-type: none"> Read story 	
13 – 17 January	Short Story-<i>Contents of a Dead Man’s Pocket</i> <ul style="list-style-type: none"> Read story 	
20 - 24 January	Short Story-<i>Contents of a Dead Man’s Pocket</i> <ul style="list-style-type: none"> Finish reading Students answer questions 	
27 – 31 January	Assessment- Test on <i>Contents of a Dead Man’s Pocket</i> <ul style="list-style-type: none"> Read and discuss poem <i>When I heard the Learn’d Astronomer</i> 	
3 – 7 February	Assessment- Test on <i>When I heard the Learn’d Astronomer</i> <ul style="list-style-type: none"> Final exam review 	
10 – 14 February	<p style="text-align: center;">***Final Exams***</p>	



Bangkok Christian College English Immersion Program

Course Scope for Poetry and Music Lyrics Matthayom 4

Semester 2/2024-2025 Teacher Jeffrey Tedlow



Date	Contents	Comments/ Remarks
25 October	Review Course Outline and Expectations The Beatles <i>A Day In the Life</i> <ul style="list-style-type: none"> • Discussion of song/students answer questions 	
28 October – 1 November	Robert Frost- <i>Nothing Gold Can Stay</i> <ul style="list-style-type: none"> • Discussion of poem • Students answer questions 	
4 - 8 November	Rush- <i>The Trees</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions Assign project- Students in groups make a music video to a song of their choice	
11 - 15 November	Robert Hayden- <i>Those Winter Sundays</i> *Discussion of poem * Students answer questions	
18 - 22 November	Assessment- Test on <i>A Day in the Life, Nothing Gold Can Stay, The Trees, and Those Winter Sundays</i> Green Day <i>Good Riddance</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions 	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Steve Coleman- <i>I wanna Hear a Poem</i> <ul style="list-style-type: none"> • Introduction to slam poetry • Discussion of poem • Students answer questions 	
9 – 13 December	Jake Miller <i>White Night</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions 	
16 – 20 December	** Music video group project presentations**	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Emily Dickinson- <i>Success is Counted Sweetest</i> *Discussion of poem *Students answer questions	
13 – 17 January	The Smashing Pumpkins <i>Bullet With Butterfly Wings</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions 	
20 - 24 January	Assessment- Test on <i>I Wanna Hear a Poem, White Night, Success is Counted Sweetest, Bullet with Butterfly Wings, Good Riddance</i> Jason Walsh- <i>Renegade</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions 	
27 – 31 January	**Final Exam Review**	
3 – 7 February	**Final Exam**	
10 – 14 February	***Final Exams***	



Bangkok Christian College English Immersion Program

Course Scope for Speech Matthayom 4

Semester 2/2024-2025 Teacher Jeffrey Tedlow



Date	Contents	Comments/ Remarks
25 October	<ul style="list-style-type: none"> • Introduction to course/go over course outline <ul style="list-style-type: none"> • Introduction to public speaking • Public Speaking tips/suggestions 	
28 October – 1 November	Study of Martin Luther King’s <i>I have a Dream</i> Speech <ul style="list-style-type: none"> • Discussion of speech <ul style="list-style-type: none"> • Students answer questions on the content of speech and analyze why it is one of the greatest speeches of all time 	
4 - 8 November	*Presentation on Persuasive Speeches * study example persuasive speech * Go over speech outline *Assign Persuasive Speech	
11 - 15 November	**Students give their persuasive speeches**	
18 - 22 November	<ul style="list-style-type: none"> • Presentation on entertainment speeches • Study example entertainment speech <ul style="list-style-type: none"> • Assign entertainment speech 	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	**Students give their entertainment speeches**	
9 – 13 December	Assessment- Test on public speaking techniques, persuasive, and entertainment speeches ** Students finish giving their entertainment speeches**	
16 – 20 December	Assign project- students research a conspiracy theory and give a persuasive speech on whichever side of that theory they agree with <ul style="list-style-type: none"> • Students work on their projects 	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	** Students deliver their conspiracy theory persuasive speeches**	
13 – 17 January	**Students finish delivering their persuasive speeches** <ul style="list-style-type: none"> • Introduction to group debate activity • Students Prep for group debate 	
20 - 24 January	<ul style="list-style-type: none"> • Group Debate activity-students in groups debate both sides of an issue • Teacher decides which group wins the debate, announces the winner, and explains the winning team was victorious. 	
27 – 31 January	** Final Exam Review**	
3 – 7 February	**Final exam**	
10 – 14 February	***Final Exams***	



Bangkok Christian College English Immersion Program

Course Scope for Economic and Geography Matthayom 4

Semester 2/2024-2025 Teacher Andrew Hailstone



Date	Contents	Comments/ Remarks
25 October	Decolonization	
28 October – 1 November	Nation Creation	
4 - 8 November	Civil Wars	
11 - 15 November	Nation States Definitions	
18 - 22 November	Nation States Yugoslavia and Rwanda	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Nation States Ukraine and China	
9 – 13 December	Nation States Ireland, UK and France	
16 – 20 December	Nationalism	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Multi-Culturalism	
13 – 17 January	The Collapse of the Soviet Union	
20 - 24 January	Soviet based causes	
27 – 31 January		
3 – 7 February	US based causes	
10 – 14 February	***Final Exams***	



Bangkok Christian College English Immersion Program

Course Scope for Economic and Geography Matthayom 4

Semester 2/2024-2025 Teacher Andrew Hailstone



Date	Contents	Comments/ Remarks
25 October	Decolonization	
28 October – 1 November	Nation Creation	
4 - 8 November	Civil Wars	
11 - 15 November	Nation States Definitions	
18 - 22 November	Nation States Yugoslavia and Rwanda	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Nation States Ukraine and China	
9 – 13 December	Nation States Ireland, UK and France	
16 – 20 December	Nationalism	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Multi-Culturalism	
13 – 17 January	The Collapse of the Soviet Union	
20 - 24 January	Soviet based causes	
27 – 31 January		
3 – 7 February	US based causes	
10 – 14 February	***Final Exams***	



Bangkok Christian College English Immersion Program

Course Scope for Literature Studies Matthayom 4

Semester 2/2024-2025 Teacher Jeffrey Tedlow



Date	Contents	Comments/ Remarks
25 October	Short story- <i>Lamb to the Slaughter</i> <ul style="list-style-type: none"> • Introduction-explanation of dark humor, discussion about how people respond to unexpected change • vocabulary 	
28 October – 1 November	Short story- <i>Lamb to the Slaughter</i> <ul style="list-style-type: none"> • Read story 	
4 - 8 November	Short story- <i>Lamb to the Slaughter</i> <ul style="list-style-type: none"> • Read story • Students answer questions 	
11 - 15 November	Assessment- <i>Lamb to the Slaughter</i> test <ul style="list-style-type: none"> • Introduction to <i>An Occurrence at Owl Creek Bridge</i>-brief explanation of the US Civil War 	
18 - 22 November	Short story-<i>An Occurrence at Owl Creek Bridge</i> <ul style="list-style-type: none"> • Vocabulary • Begin reading 	
25 – 29 November	<p style="text-align: center;">***Pearson Exams Week***</p>	
2 – 6 December	Short story-<i>An Occurrence at Owl Creek Bridge</i> <ul style="list-style-type: none"> • Read Story 	
9 – 13 December	Short story-<i>An Occurrence at Owl Creek Bridge</i> <ul style="list-style-type: none"> • Finish reading • Students answer questions 	
16 – 20 December	Assessment- <i>An Occurrence at Owl Creek Bridge</i> test <ul style="list-style-type: none"> • Introduction to <i>Contents of a Dead Man's Pocket</i> short story- discussions about ambition, work/life balance, and risking one's life 	
23 – 27 December	<p style="text-align: center;">***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24th***</p>	
30 December – 3 January	<p style="text-align: center;">***Christmas Holiday***</p>	
6 – 10 January	Short Story-<i>Contents of a Dead Man's Pocket</i> <ul style="list-style-type: none"> • Read story 	
13 – 17 January	Short Story-<i>Contents of a Dead Man's Pocket</i> <ul style="list-style-type: none"> • Read story 	
20 - 24 January	Short Story-<i>Contents of a Dead Man's Pocket</i> <ul style="list-style-type: none"> • Finish reading • Students answer questions 	
27 – 31 January	Assessment- Test on <i>Contents of a Dead Man's Pocket</i> <ul style="list-style-type: none"> • Read and discuss poem <i>When I heard the Learn'd Astronomer</i> 	
3 – 7 February	Assessment- Test on <i>When I heard the Learn'd Astronomer</i> <ul style="list-style-type: none"> • Final exam review 	
10 – 14 February	<p style="text-align: center;">***Final Exams***</p>	



Bangkok Christian College English Immersion Program



Course Scope for Poetry and Music Lyrics Matthayom 4

Semester 2/2024-2025 Teacher Jeffrey Tedlow

Date	Contents	Comments/ Remarks
25 October	Review Course Outline and Expectations The Beatles <i>A Day In the Life</i> <ul style="list-style-type: none"> • Discussion of song/students answer questions 	
28 October – 1 November	Robert Frost- <i>Nothing Gold Can Stay</i> <ul style="list-style-type: none"> • Discussion of poem • Students answer questions 	
4 - 8 November	Rush- <i>The Trees</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions Assign project- Students in groups make a music video to a song of their choice	
11 - 15 November	Robert Hayden- <i>Those Winter Sundays</i> *Discussion of poem * Students answer questions	
18 - 22 November	Assessment- Test on <i>A Day in the Life, Nothing Gold Can Stay, The Trees, and Those Winter Sundays</i> Green Day <i>Good Riddance</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions 	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Steve Coleman- <i>I wanna Hear a Poem</i> <ul style="list-style-type: none"> • Introduction to slam poetry • Discussion of poem • Students answer questions 	
9 – 13 December	Jake Miller <i>White Night</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions 	
16 – 20 December	** Music video group project presentations**	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Emily Dickinson- <i>Success is Counted Sweetest</i> *Discussion of poem *Students answer questions	
13 – 17 January	The Smashing Pumpkins <i>Bullet With Butterfly Wings</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions 	
20 - 24 January	Assessment- Test on <i>I Wanna Hear a Poem, White Night, Success is Counted Sweetest, Bullet with Butterfly Wings, Good Riddance</i> Jason Walsh- <i>Renegade</i> <ul style="list-style-type: none"> • Discussion of song • Students answer questions 	
27 – 31 January	**Final Exam Review**	
3 – 7 February	**Final Exam**	
10 – 14 February	***Final Exams***	



Bangkok Christian College English Immersion Program

Course Scope for Science and Technology (Projects) Matthayom4

Semester 2/2024-2025 Teacher Steven Fournier



Date	Contents	Comments/ Remarks
25 October	Quick Review of Units 1: Velocity, Energy, Deep dive into some kinematic velocity questions. Worksheet 1.	
28 October – 1 November	Unit 1: Velocity. Breaking questions. Solving multiple part questions continued. How velocity is converted to electricity.	
4 - 8 November	Physics Unit 2: Electricity. (pg. 59-95) Mains Electricity. Project 1: Making circuits. Look at complex systems and try to establish what is going on. Rectifiers, capacitors, inductor	
11 - 15 November	Physics Unit 2: Electricity. Current and Voltage. Electrical Resistance (Worksheet 2) Groupwork on making circuits.	
18 - 22 November	Test 1: Electricity and practice with past papers in prep for pearson exam.	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Physics Unit 3: Waves. Properties of waves. Pg 559-568. Review wavelength, types of waves, aspects of reflection and the Doppler effect. Physics Unit 3: Waves. The electromagnetic spectrum. Pg 568- 574.	
9 – 13 December	Physics Unit 3: Waves: The electromagnetic spectrum/light and sound pg 568-587. Quiz 1 online. Project 1 due.	
16 – 20 December	Lab 1: Internal reflection using sims. https://phet.colorado.edu/sims/html/bending-light/latest/bending-light_en.html Making a prism to make a rainbow. or make a periscope https://www.youtube.com/watch?v=N0LqI77DFBY Make a report in a team with and demonstrate your prism making a rainbow.+ Physics Unit 3: Waves review → Test 1 and feedback	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Project 2: Use two or more of the units we have covered to demonstrate an idea or invention. (Groups 6 max)	
13 – 17 January	Review of Chapters 1-4 with IGCSE papers. Online quiz 2: Chapters 1-4 (like a mini BMAT)	
20 - 24 January	Review of Chapter 1-4 with IGCSE past papers. Worksheet 2:	
27 – 31 January	Presentation of projects.	
3 – 7 February	Presenting projects continued if time, IGCSE content from Units 1-4 , Student interviews on concept questions and situational questions. (Presentation 1)	
10 – 14 February	Student interviews (Presentation 1) continued + Test 2: Units 1-4 Mock exam + practice questions. Prep for Exam	
17 - 21 February	***Final Exams***	



Bangkok Christian College English Immersion Program

Course Scope for Speech Matthayom 4

Semester 2/2024-2025 Teacher Jeffrey Tedlow



Date	Contents	Comments/ Remarks
25 October	<ul style="list-style-type: none"> • Introduction to course/go over course outline <ul style="list-style-type: none"> • Introduction to public speaking • Public Speaking tips/suggestions 	
28 October – 1 November	Study of Martin Luther King’s <i>I have a Dream</i> Speech <ul style="list-style-type: none"> • Discussion of speech • Students answer questions on the content of speech and analyze why it is one of the greatest speeches of all time 	
4 - 8 November	*Presentation on Persuasive Speeches * study example persuasive speech * Go over speech outline *Assign Persuasive Speech	
11 - 15 November	**Students give their persuasive speeches**	
18 - 22 November	<ul style="list-style-type: none"> • Presentation on entertainment speeches • Study example entertainment speech <ul style="list-style-type: none"> • Assign entertainment speech 	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	**Students give their entertainment speeches**	
9 – 13 December	Assessment- Test on public speaking techniques, persuasive, and entertainment speeches ** Students finish giving their entertainment speeches**	
16 – 20 December	Assign project- students research a conspiracy theory and give a persuasive speech on whichever side of that theory they agree with <ul style="list-style-type: none"> • Students work on their projects 	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	** Students deliver their conspiracy theory persuasive speeches**	
13 – 17 January	**Students finish delivering their persuasive speeches** <ul style="list-style-type: none"> • Introduction to group debate activity • Students Prep for group debate 	
20 - 24 January	<ul style="list-style-type: none"> • Group Debate activity-students in groups debate both sides of an issue • Teacher decides which group wins the debate, announces the winner, and explains the winning team was victorious. 	
27 – 31 January	** Final Exam Review**	
3 – 7 February	**Final exam**	
10 – 14 February	***Final Exams***	



Bangkok Christian College English Immersion Program

Course Scope for General Science Matthayom 4

Semester 2/2024-2025 Teacher Steven Fournier



Date	Contents	Comments/ Remarks
25 October	Biology Unit 3: Plant Physiology: pg 145-162. Chemical Coordination, reproduction.	
28 October – 1 November	Biology Unit 3: Plant Physiology Online Quiz 2, submit Lab 1 Project 1 on Energy: How plants give us energy (food chain, motion of energy).	
4 - 8 November	Test 3: Plant Physiology. Check progress of seeds (Lab 2) Physics: Unit 3: Waves. Properties of Waves (pg 559-568)	
11 - 15 November	Test 1 + Feedback. Lab on Plants under a microscope.	
18 - 22 November	Physics Unit3: Waves: The electromagnetic spectrum (568-575). Worksheet 3: uses of the electromagnetic spectrum. Project 1 due.	
25 – 29 November	***Pearson Exams Week***	
2 – 6 December	Physics: Unit 3: Waves. Properties of Waves (pg 559-568) Project 2: Demonstration of Sound or Light.	
9 – 13 December	Physics Unit 3: Light and Sound waves. Test 2: Waves. Review:	
16 – 20 December	Biology Unit 3, Physics Unit 3, Plant worksheets due,	
23 – 27 December	***Christmas ceremonies, followed by the beginning of Christmas holiday on the 24 th ***	
30 December – 3 January	***Christmas Holiday***	
6 – 10 January	Physics Unit 2: Electricity. Pg 529-545. Mains Electricity. Power= Current x Voltage, Ohm’s Law ($V=IR$) Worksheet 2 on Ohm’s Law.	
13 – 17 January	Physics Unit 2: Electricity. Pg 545-558. Finish up electricity, look at circuits, make online with Phet, Project 1: Doing an experiment with a battery.	
20 - 24 January	Physics lab 1: Work. Comparing physical work to electrical work.	
27 – 31 January	Chemistry Unit 1: 276-290 review, moving forward into empirical formula, stoichiometry, + energetics (if time) pg 413-428.	
3 – 7 February	Chemistry Supplemental: Batteries. How they work, storing energy, transferring energy. Project 2: Doing an experiment with a battery. Making your own circuit.	
10 – 14 February	Review of Work Done: Mock Exam (Test 4) on Biology, Chemistry, and Physics.	
17 - 21 February	***Final Exams***	